

EPA Registration # 67690-61



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

May 5, 2017

Laurent C. Mézin, Ph. D.
Regulatory and Government Affairs Leader
SePRO Corporation
11550 N. Meridian Street, Suite 600
Carmel, IN 46032-4562

Subject: Label Amendment – Updated storage and disposal section, updated directions for use language, add supplemental label, and made other minor text and format changes
Product Name: Sonar H4C
EPA Registration Number: 67690-61
Application Date: 10/12/15
Decision Number: 510289

Dear Dr. Mézin:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

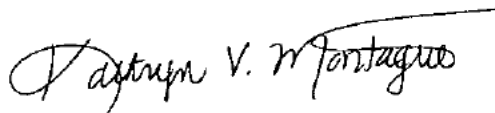
A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Karen Samek by phone at (703) 347-8825, or via email at samek.karen@epa.gov.

Sincerely,

A handwritten signature in cursive script, reading "Kathryn V. Montague". The signature is written in dark ink and is positioned above the printed name and title.

Kathryn Montague, Product Manager 23
Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

[VERSION A: Front of label booklet, all non-STP containers]



Sonar® H4C

Aquatic Herbicide

ACCEPTED

05/05/2017

 Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No.

67690-61

For management of aquatic vegetation in fresh water ponds, lakes, reservoirs (including inlets and tributaries), potable water sources, drainage canals, irrigation canals and rivers.

Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone 2.7%

Other Ingredients 97.3%

TOTAL 100.0%

Contains 0.027 lbs. active ingredient per pound.

Keep Out of Reach of Children
CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

Refer to inside of label booklet for additional precautionary statements and directions for use including first aid and storage and disposal.

Notice: Read the entire label before using. Use only according to label directions. Before buying or using this product, read Warranty Disclaimer and Misuse statements inside label booklet. If terms are unacceptable, return at once unopened.

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053.	

EPA Reg. No. 67690-61
FPL20170113

Sonar® H4C, 67690-61
EPA Est. No. _____
[SPC -] _____

SePRO Corporation • 11550 N. Meridian Street, Suite 600 • Carmel, IN 46032, U.S.A.

Net weight _____ (Non-refillable)

[VERSION A: Label booklet text, all non-STP containers]

PRECAUTIONARY STATEMENTS**Hazards to Humans and Domestic Animals****KEEP OUT OF REACH OF CHILDREN
CAUTION/PRECAUCIÓN**

Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wear long sleeved shirt, long pants, shoes and socks.

FIRST AID

If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center for treatment advice.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call **INFOTRAC** at **1-800-535-5053**.

USER SAFETY RECOMMENDATIONS

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Trees and shrubs growing in water treated with this product may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read all directions carefully before applying this product.

PRODUCT INFORMATION

This product is a selective systemic aquatic herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs (including inlets and tributaries), drainage canals, irrigation canals, and rivers. This product is a pelleted formulation containing 2.7% fluridone designed to provide enhanced numbers of pellets (greater coverage) in treated areas versus other Sonar pellet formulations at equivalent herbicide dosing. This higher density of pellets has the potential to improve herbicide contact with target vegetation in higher exchange treatment scenarios such as spot or small-partial application designs. This product is absorbed from water by plant shoots and from hydrosol by the roots of aquatic vascular plants. It is important to maintain this product in contact with the target plants for as long as possible. Rapid water movement or any condition which results in rapid dilution of this product in treated water will reduce its effectiveness. In susceptible plants, this product inhibits the formation of carotene. In the absence of carotene, chlorophyll is rapidly degraded by sunlight.

Herbicidal symptoms of this product appear in seven to ten days and appear as white (chlorotic) or pink growing points. Under optimum conditions, 30 to 90 days are required before the desired level of aquatic weed management is achieved with this product. Species susceptibility to this product may vary depending on time of year, stage of growth and water movement. For best results, apply this product prior to initiation of weed growth or when weeds begin active growth. Application to mature target plants may require an application rate at the higher end of the specified rate range and may take longer to control.

This product is not corrosive to application equipment.

The label provides recommendations on the use of a chemical analysis for the active ingredient. SePRO Corporation recommends the use of a High-Performance Liquid Chromatography (HPLC) for the determination of the active ingredient concentration in the water. Contact SePRO Corporation to incorporate this test, known as a FastEST, into your treatment program. Other proven chemical analyses for the active ingredient may also be used. The FastEST is referenced in this label as the preferred method for the rapid determination of the concentration of the active ingredient in the water.

Application rates are provided in pounds of product to achieve a desired concentration of the active ingredient in parts per billion (ppb). **The maximum application rate or sum of all application rates is 90 ppb in ponds (< 10 Acres) and 150 ppb in lakes and reservoirs per annual growth cycle.** This maximum concentration is the amount of product calculated as the target application rate, NOT determined by testing the concentrations of the active ingredient in the treated water.

Use Restrictions

- **Obtain Required Permits:** Consult with appropriate state or local water authorities before applying this product. Permits may be required by state or local public agencies.
- **New York State:** Application of this product is not permitted in waters less than two (2) feet deep, except as permitted under FIFRA Section 24(c), Special Local Need registration.
- **Hydroponic Farming:** Do not use water from a Sonar-treated area for hydroponic farming unless one of the following has been verified for the relevant active water intake and its withdrawal of surface water:
 - A FastEST has been run and the concentration in water at the intake is less than 1 ppb; or
 - A filtration or water treatment process following water intake has been verified analytically to reduce the concentration in potential irrigation water below 1 ppb.

- **Greenhouse and Nursery Plants:** Do not use water from a Sonar-treated area for greenhouse and nursery irrigation unless one of the following has been verified for the relevant active water intake and its withdrawal of surface water:
 - For the irrigation of woody ornamental plants, a FastEST has been run and the concentration at the intake is less than 5 ppb; or
 - For the irrigation of other greenhouse or nursery plants, the concentration is confirmed less than 1 ppb; or
 - A filtration or water treatment process following water intake has been verified analytically to reduce the concentration in potential irrigation water below either the 1 or 5 ppb levels cited above.
- **Water Use Restrictions Following Application (Days)**

Application Rate	Drinking†	Fishing	Swimming	Livestock/Pet Consumption	Irrigation††
Maximum Rate (150 ppb) or less	0	0	0	0	See irrigation instructions below

† Note below, under *Potable Water Intakes*, the information for application of this product within ¼ miles (1,320 feet) of a functioning potable water intake.

†† Note below, under *Irrigation*, specific time frames or fluridone concentrations that provide the widest safety margin for irrigating with fluridone treated water.

- **Potable Water Intakes:** Concentrations of the active ingredient fluridone up to 150 ppb are allowed in potable water sources; however, in lakes and reservoirs or other sources of potable water, do not apply this product at application rates greater than 20 ppb within one-fourth (¼) mile (1,320 feet) of any functioning potable water intake. At application rates of up to 20 ppb, this product may be applied where functioning potable water intakes are present. **NOTE: Existing potable water intakes which are no longer in use, such as those replaced by connections to potable water wells or a municipal water system, are not considered to be functioning potable water intakes.**
- **Irrigation:** For tobacco, tomatoes, peppers or other plants within the Solanaceae Family and newly seeded crops or newly seeded grasses such as overseeded golf course greens, do not use water treated with this product if concentrations are greater than 5 ppb. It is recommended that a SePRO Aquatic Specialist be consulted prior to commencing irrigation of these sites.
When rotating crops, do not plant members of the Solanaceae family in land that has been previously irrigated with fluridone concentrations in excess of 5 ppb without consultation with a SePRO Aquatic Specialist.

Use Precautions

- **Irrigation:** Irrigation with water treated with this product may result in injury to the irrigated vegetation. Follow these precautions and inform those who irrigate from areas treated with this product of the irrigation time frames or FastEST requirements presented in the table below. Follow these time frames and FastEST recommendations to reduce the potential for injury to vegetation irrigated with water treated with this product. Greater potential for crop injury occurs where water treated with this product is applied to crops grown on low organic and sandy soils.

Application Site	Days After Application		
	Established Tree Crops	Established Row Crops/ Turf/Plants	Newly Seeded Crops/Seedbeds or Areas to be Planted Including Overseeded Golf Course Greens
Ponds and Static Canals [†]	7	30	FasTEST required
Canals	7	7	FasTEST required
Rivers	7	7	FasTEST required
Lakes and Reservoirs ^{††}	7	7	FasTEST required

[†] For purposes of this product's labeling, a pond is defined as a body of water 10 acres or less in size. A lake or reservoir is greater than 10 acres.

^{††} In lakes and reservoirs where one-half or greater of the body of water is treated, use the pond and static canal irrigation precautions.

Where the use of water treated with this product is desired for irrigating crops prior to the time frames established above, the use of a FasTEST is recommended to measure the concentration in the treated water. Where a FasTEST has determined that concentrations are less than 10 parts per billion, there are no irrigation precautions for irrigating established tree crops, established row crops or turf.

PLANT CONTROL INFORMATION

This product's selectivity is dependent upon dosage, time of year, stage of growth, method of application, and water movement. The following categories, controlled, partially controlled, and not controlled are provided to describe expected efficacy under ideal treatment conditions using higher to maximum label rates. Use of lower rates will increase selectivity of some species listed as controlled or partially controlled. Additional aquatic plants may be controlled, partially controlled, or tolerant to this product. It is recommended to consult a SePRO Aquatic Specialist prior to application of this product to determine a plant's susceptibility to it.

Vascular Aquatic Plants Controlled:¹

Submersed Plants:

bladderwort (*Utricularia* spp.)
 common coontail (*Ceratophyllum demersum*)[†]
 common Elodea (*Elodea canadensis*)[†]
 egeria, Brazilian Elodea (*Egeria densa*)
 fanwort, Cabomba (*Cabomba caroliniana*)
 hydrilla (*Hydrilla verticillata*)
 naiad (*Najas* spp.)[†]
 pondweed (*Potamogeton* spp., except Illinois pondweed)[†]
 watermilfoil (*Myriophyllum* spp. except variable-leaf milfoil)

Floating Plants:

azolla (*Azolla* spp.)
 duckweed (*Lemna*, *Landoltia*, and *Spirodela* spp.)

Shoreline Grasses:

paragrass (*Urochloa mutica*)

¹ Species denoted by a dagger (†) are native plants that are often tolerant to fluridone at lower use rates. Please consult a SePRO Aquatic Specialist for appropriate use rates (not to exceed maximum labeled rates) when selective control of exotic species is desired.

Vascular Aquatic Plants Partially Controlled:**Submersed Plants:**

Illinois pondweed (*Potamogeton illinoensis*)
 limnophila (*Limnophila sessiliflora*)
 tapegrass, American eelgrass (*Vallisneria spiralis*)
 watermilfoil--variable-leaf (*Myriophyllum heterophyllum*)

Emerald Plants:

alligatorweed (*Alternanthera philoxeroides*)
 American lotus (*Nelumbo lutea*)
 cattail (*Typha* spp.)
 creeping waterprimrose (*Ludwigia peploides*)
 parrotfeather (*Myriophyllum aquaticum*)
 smartweed (*Polygonum* spp.)
 spatterdock (*Nuphar luteum*)
 spikerush (*Eleocharis* spp.)
 waterlily (*Nymphaea* spp.)
 waterpurslane (*Ludwigia palustris*)
 watershield (*Brasenia schreberi*)

Floating Plants:

salvinia (*Salvinia* spp.)

Shoreline Grasses:

barnyardgrass (*Echinochloa crusgalli*)
 giant cutgrass (*Zizaniopsis miliacea*)
 reed canarygrass (*Phalaris arundinacea*)
 southern watergrass (*Hydrochloa carolinensis*)
 torpedograss (*Panicum repens*)

Vascular Aquatic Plants Not Controlled:**Emerald Plants:**

American frogbit (*Limnobium spongia*)
 arrowhead (*Sagittaria* spp.)
 bacopa (*Bacopa* spp.)
 big floatingheart, banana lily (*Nymphoides aquatica*)
 bulrush (*Scirpus* spp.)
 pickerelweed, lanceleaf (*Pontederia* spp.)
 rush (*Juncus* spp.)
 water pennywort (*Hydrocotyle* spp.)

Floating Plants:

floating waterhyacinth (*Eichhornia crassipes*)
 waterlettuce (*Pistia stratiotes*)

Shoreline Grasses:

maiden cane (*Panicum hemitomon*)

NOTE: algae (chara, nitella, and filamentous species) are not controlled by this product.

APPLICATION DIRECTIONS

The aquatic plants present in the treatment site should be identified prior to application to determine their susceptibility to this product. It is important to determine the area (acres) to be

treated and the average depth in order to select the proper application rate. Do not exceed the maximum labeled rate for a given treatment site per annual growth cycle.

Application to Ponds

This product may be applied to the entire surface area of a pond. For single applications, rates may be selected to provide 45 to 90 ppb to the treated water, although actual concentrations in treated water may be substantially lower at any point in time due to the slow-release formulation of this product. When treating for optimum selective control, lower rates may be applied for sensitive target species. Use the higher rate within the rate range where there is a dense weed mass, when treating more difficult to control species, and for ponds less than 5 acres in size with an average depth less than 4 feet. Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the *Application Rate Calculation—Ponds, Lakes and Reservoirs* section of this label. Split or multiple applications may be used where dilution of treated water is anticipated; however, the sum of all applications should total 45 to 90 ppb and must not exceed a total of 90 ppb per annual growth cycle.

Average Water Depth of Treatment Site (feet)	Pounds of product per Treated Surface Acre	
	45 ppb	90 ppb
1	4.5	9
2	9	18
3	13.5	27
4	18	36
5	22.5	45
6	27	54
7	31.5	63
8	36	72
9	40.5	81
10	45	90

Application to Lakes and Reservoirs

The following treatments may be used for treating both whole lakes or reservoirs and partial areas of lakes or reservoirs (bays, etc.). For best results in treating partial lakes and reservoirs, treatment areas should be a minimum of 5 acres in size. Treatment of areas smaller than 5 acres or treatment of narrow strips such as boat lanes or shorelines may not produce satisfactory results due to dilution by untreated water. Rate ranges are provided as a guide to include a wide range of environmental factors, such as target species, plant susceptibility, selectivity and other aquatic plant management objectives. Application rates and methods should be selected to meet the specific lake/reservoir aquatic plant management goals.

A. Whole Lake or Reservoir Treatments (Limited or No Water Discharge)

Single Application to Whole Lakes or Reservoirs

Where single applications to whole lakes or reservoirs are desired, apply this product at an application rate not to exceed 90 ppb, and in a suggested range of 16 to 90 ppb. Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the *Application Rate Calculation—Ponds, Lakes and Reservoirs* section of this label. Choose an application rate not to exceed 90 ppb to meet the aquatic plant management objective. **Where greater plant selectivity is desired such as when controlling Eurasian watermilfoil and curlyleaf pondweed, choose an application rate lower in the rate range.** For other plant species, SePRO recommends contacting a SePRO Aquatic Specialist in determining when

to choose application rates lower in the rate range to meet specific plant management goals. Use the higher rate within the rate range where there is a dense weed mass or when treating more difficult to control plant species or in the event of a heavy rainfall event where dilution has occurred. In these cases, a second application or more may be required; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Refer to the section of this label entitled, *Split or Multiple Applications to Whole Lakes or Reservoirs*, for guidelines and maximum rate allowed.

Average Water Depth of Treatment Site (feet)	Pounds of product Per Treated Surface Acre	
	16 ppb	90 ppb
1	1.6	9
2	3.2	18
3	4.8	27
4	6.4	36
5	8	45
6	9.6	54
7	11.2	63
8	12.8	72
9	14.4	81
10	16	90
11	17.6	99
12	19.2	108
13	20.8	117
14	22.4	126
15	24	135
16	25.6	144
17	27.2	153
18	28.8	162
19	30.4	171
20	32	180

Split or Multiple Applications to Whole Lakes or Reservoirs

To meet certain plant management objectives, split or multiple applications may be desired in making whole lake treatments. Split or multiple application programs are desirable when the objective is to use the minimum effective dose and to maintain this lower dose for the sufficient time to ensure efficacy and enhance selectivity. Under these situations, use the lower rates within the rate range. **In controlling Eurasian watermilfoil and curlyleaf pondweed and where greater plant selectivity is desired, choose an application rate lower in the rate range.** For other plant species, SePRO recommends contacting a SePRO Aquatic Specialist in determining when to choose application rates lower in the rate range to meet specific plant management goals. For split or repeated applications, the sum of all applications must not exceed 150 ppb per annual growth cycle.

NOTE: In treating lakes or reservoirs that contain potable water intakes and when the application requires treating within ¼ mile of a potable water intake, no single application can exceed 20 ppb. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

B. Partial Lake or Reservoir Treatments

Where dilution of this product with untreated water is anticipated, such as in partial lake or reservoir treatments, split or multiple applications may be used to extend the contact time to the target plants. The application rate and use frequency of this product in a partial lake is

highly dependent upon the treatment area. An application rate at the higher end of the specified rate range may be required and frequency of applications will vary depending upon the potential of untreated water diluting this product's concentration in the treatment area. Use a rate at the higher end of the rate range where greater dilution with untreated water is anticipated.

Application Sites Greater Than ¼ Mile from a Functioning Potable Water Intake

For single applications, apply this product at rates not to exceed 150 ppb, and in a suggested range of 45 to 150 ppb. Split or multiple applications may be made; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Split applications should be conducted to maintain a sufficient concentration in the target area for a period of 45 days or longer. The use of a FastEST is recommended to maintain the desired concentration in the target area over time.

Application Sites within ¼ Mile of a Functioning Potable Water Intake

In treatment areas that are within ¼ mile of a potable water intake, no single application can exceed 20 ppb. When utilizing split or repeated applications of this product for sites which contain a potable water intake, a FastEST is required to determine the actual concentration in the water. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

Application Rate Calculation — Ponds, Lakes and Reservoirs

The amount of product to be applied to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

$$\text{Pounds of product required per treated acre} = \text{Average water depth of treatment site} \\ \times \text{Desired ppb concentration of active ingredient} \times 0.1$$

For example, the pounds per acre of product required to provide a concentration of 25 ppb of active ingredient in water with an average depth of 5 feet is calculated as follows:

$$5 \times 25 \times 0.1 = 12.5 \text{ pounds per treated surface acre.}$$

NOTE: Calculated rates may not exceed the maximum allowable rate in pounds per treated surface acre for the water depth listed in the application rate table for the site to be treated.

C. Application to Drainage Canals, Irrigation Canals and Rivers

Static Canals:

In static drainage and irrigation canals, apply this product at typical use rates of 37 to 74 pounds per surface acre. The maximum application rate or sum of all application rates cannot exceed 150 ppb per annual growth cycle.

Moving Water Canals and Rivers:

This product's performance will be enhanced by restricting or reducing water flow. In slow moving bodies of water use an application technique that maintains a concentration of 10 to 40 ppb in the applied area for typically a minimum of 45 days. This product can be applied by split or multiple broadcast applications or by metering in the product to provide a uniform concentration of the herbicide based upon the flow pattern. The use of a FastEST is recommended to maintain the desired concentration in the target area over time.

Static or Moving Water Canals or Rivers Containing a Functioning Potable Water Intake

In treating a static or moving water canal or river which contains a functioning potable water intake, applications of this product greater than 20 ppb must be made more than ¼ mile from a functioning potable water intake. Applications less than 20 ppb may be applied

within ¼ mile from a functioning potable water intake; however, if applications of this product are made within ¼ mile from a functioning water intake, a FastEST must be utilized to demonstrate that concentrations do not exceed 150 ppb at the potable water intake.

Application Rate Calculation — Drainage Canals, Irrigation Canals and Rivers

The amount of this product to be applied through a metering system to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

1. Average flow rate (feet per second) x average width (ft.) x average depth (ft.) x 0.9 = CFS (cubic feet per second)
2. CFS x 1.98 = acre feet per day (water movement)
3. Acre feet per day x desired ppb x 0.1 = pounds product required per day.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

Container Handling

Non-refillable Container. DO NOT reuse or refill this container. Completely empty container into application equipment, then offer for recycling if available or dispose of empty container in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Warranty Disclaimer: SePRO Corporation warrants that this product conforms to the chemical description on the product label. Testing and research have also determined that this product is reasonably fit for the uses described on the product label. To the extent consistent with applicable law, SePRO Corporation makes no other express or implied warranty of fitness or merchantability nor any other express or implied warranty and any such warranties are expressly disclaimed.

Misuse: Federal law prohibits the use of this product in a manner inconsistent with its label directions. To the extent consistent with applicable law, the buyer assumes responsibility for any adverse consequences if this product is not used according to its label directions. In no case shall SePRO Corporation be liable for any losses or damages resulting from the use, handling or application of this product in a manner inconsistent with its label.

For additional important labeling information regarding SePRO Corporation's Terms and Conditions of Use, Inherent Risks of Use and Limitation of Remedies, please visit <http://seprolabels.com/terms> or scan the image below.



© Copyright ____ SePRO Corporation

FPL20170113

[VERSION A: Base label for all non-STP containers]



Sonar® H4C

Aquatic Herbicide

Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone 2.7%

Other Ingredients 97.3%

TOTAL 100.0%

Contains 0.027 lbs. active ingredient per pound.

Keep Out of Reach of Children

CAUTION / PRECAUCIÓN

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wear long sleeved shirt, long pants, shoes and socks.

FIRST AID

If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center for treatment advice.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call **INFOTRAC** at **1-800-535-5053**.

ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Trees and shrubs growing in water treated with this product may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

Container Handling

Non-refillable, rigid container. DO NOT reuse or refill this container. Completely empty container into application equipment, then offer for recycling if available or dispose of empty container in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Non-refillable, non-rigid container. DO NOT reuse or refill this container. Completely empty liner into application equipment by shaking and tapping sides and bottom to loosen clinging particles. If not emptied in this manner, the bag may be considered an acute hazardous waste and must be disposed of in accordance with local, state and federal regulations. When completely empty, offer for recycling if available or dispose of in a sanitary landfill or by incineration or if allowed by state and local authorities, by burning. If burned, stay out of smoke. If outer packaging is contaminated and cannot be reused, dispose of it in the manner required for its liner.

Refer to inside of label booklet for additional precautionary statements and directions for use including first aid and storage and disposal.

Notice: Read the entire label before using. Use only according to label directions. Before buying or using this product, read Warranty Disclaimer and Misuse statements inside label booklet. If terms are unacceptable, return at once unopened.

EPA Reg. No. 67690-61
FPL20170113

EPA Est. No. _____
[SPC -] _____

SePRO Corporation • 11550 N. Meridian Street, Suite 600 • Carmel, IN 46032, U.S.A.

Net weight _____ (Non-refillable)

[VERSION B: Front Panel, STP ONLY containers]

Sonar® H4C

Aquatic Herbicide

[ABN: SePRO Total Pond – Prevent™]

Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1*H*)-pyridinone 2.7%

Other Ingredients 97.3%

TOTAL 100.0%

Contains 0.027 lbs. active ingredient per pound.

KEEP OUT OF REACH OF CHILDREN CAUTION

See label booklet for additional precautionary statements and directions for use.

{optional text:

*Contains Sonar® for early-season floating and submersed weed removal and prevention**Contains Sonar® for selective control of floating and submersed aquatic weeds**Controls Duckweed, Pondweed, Milfoil, Hydrilla, PLUS many more! }*

Controls many submersed and floating aquatic weeds

- Apply early-season to prevent weeds from ever becoming a problem
- Apply in-season to remove nuisance aquatic weeds
- Systemic, complete kill including the roots
- Easy-to-apply granular formulation



Recommended Application Timing

EPA Reg. No. 67690-61

[FG no.] _____

[Part no.] _____

FPL20170113

Net weight _____ (Non-refillable)

[VERSION B: Label Booklet Cover, STP ONLY containers]

Sonar® H4C

Aquatic Herbicide



[ABN: SePRO Total Pond – Prevent™]

Sonar H4C is a selective systemic aquatic herbicide for management of fresh water aquatic vegetation in quiescent waterbodies (including swimming ponds, fishing ponds, livestock tanks, lakes, reservoirs and potable waterbodies).

Quick facts:

Sonar H4C is powered by Sonar®, a leading aquatic herbicide for over 20 years. This easy to use formulation provides broad spectrum weed control.

- Stops photosynthesis in treated weeds
- Safe for watering livestock
- No fishing or swimming restrictions following application.

When and where to use:

Apply early-season to prevent weeds from ever becoming a problem. Can also be used in-season to control established weeds.

- Controls most submersed weeds¹
- Controls most floating leaf weeds¹
- Results within 30 – 45 days with early application^{1,2}
- Season long control

¹ See label for details. ² Under typical conditions when following the Early-season Program

How to use:

Apply product directly to water evenly around the perimeter of the waterbody or directly over areas where weeds typically grow.

- This container treats up to 8,700 square feet, 4 feet deep

Refer to label booklet for additional precautionary statements and directions for use.

Notice: Read the entire label before using. Use only according to label directions. Before buying or using this product, read Warranty Disclaimer and Misuse statements inside label booklet. If terms are unacceptable, return at once unopened.

Copyright © _____ SePRO Corporation

Manufactured by: SePRO Corporation; 11550 N. Meridian Street, Suite 600; Carmel, IN 46032

Customer service: 1-844-766-2727

EPA Reg. No. 67690-61

[Part No.] _____

Formulated and Packaged in U.S.A.

SePRO Total Pond – Prevent is a trademark of SePRO Corporation

Sonar is a registered trademark of SePRO Corporation

EPA Est. No. _____

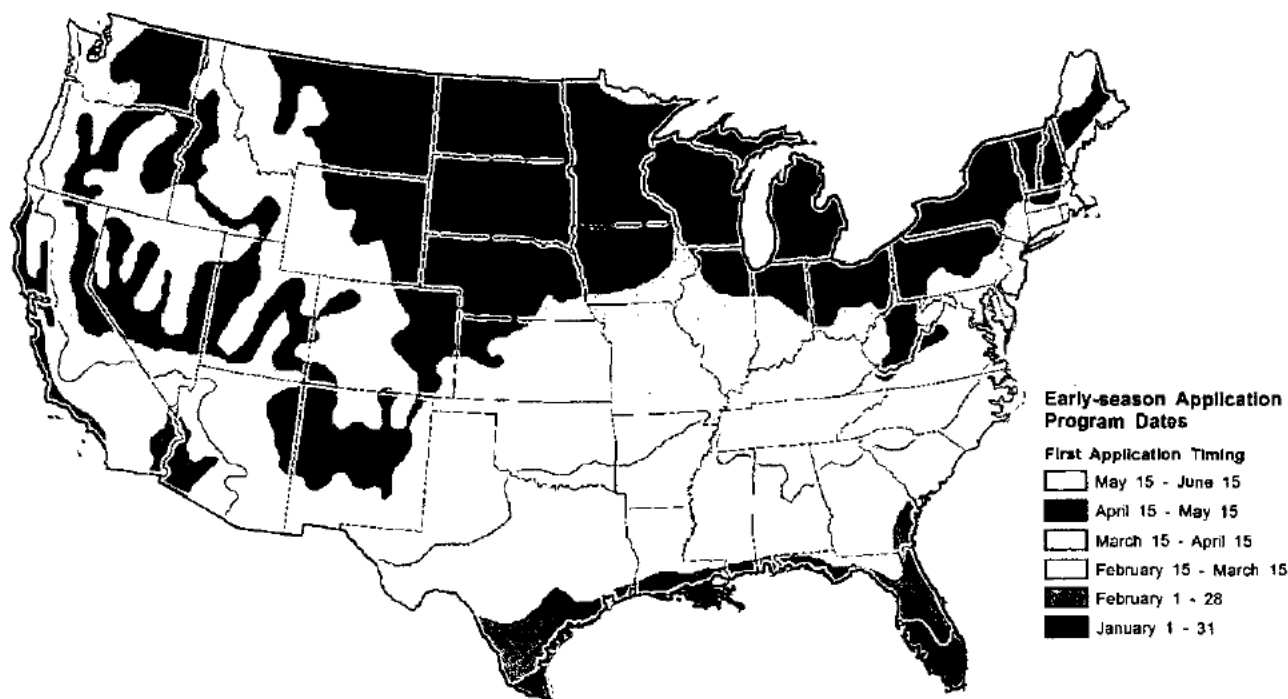
FPL20170113

[VERSION B: Label booklet text, STP ONLY containers]**STOP! PLEASE READ ENTIRE LABEL BEFORE USE.****DIRECTIONS FOR USE**

It is a violation for Federal Law to use this product in a manner inconsistent with its labeling.

**When to apply**

Sonar H4C can be applied in an **Early-season Program** before many nuisance aquatic plants begin to actively grow – or – in an **In-season Program** to control many established nuisance aquatic plants. Regardless of your situation, for best results apply in the spring or early summer.



Early-season Program: Before weeds are present, or when they are still very small, split the treatment into two (2) applications to provide optimal results and extended herbicide exposure. Find the date range of your first application from your region on the map. Depending upon the target weed species and waterbody dimensions, use Table 1 or 2 to determine the total amount of product to use for the season. Apply $\frac{1}{2}$ that amount during the range of dates indicated (or earlier if submersed plant growth is evident). Wait one month and apply the remaining $\frac{1}{2}$ to complete the program.

In-season Program: If your expected treatment start date is later than the range of dates indicated for your region on the map, apply the full dosage in a single application. Depending upon the target weed species and waterbody dimensions, use Table 1 or 2 to determine the appropriate rate.

Example: A $\frac{1}{4}$ -acre pond with an average depth of 4 feet, targeting control of duckweed and sago pondweed (Table 1). A total of 3.8 lbs. of product is needed for the season. For the Early-season Program, apply this amount of product in two applications of 1.9 lbs. each, one month apart. For the In-season Program, apply 7.5 lbs. of product in one application.

Where and how to apply

This product is formulated for direct application to the water. Simply apply the appropriate amount of product evenly in the water, around the perimeter of the waterbody or over the targeted treatment area using a gloved hand, scoop, or other granule application equipment to dispense the pellets into the water. For best results, target coverage in areas where aquatic weeds typically occur or are present.

Susceptible Aquatic Weeds for Use Rates in Table 1.

azolla
 bladderwort
 common elodea
 duckweed (rate for **Early-season Program**)
 egeria, Brazilian elodea
 hydrilla
 naiads
 pondweed (except Illinois pondweed)
 tapegrass, American eelgrass
 watermilfoils (except parrot feather)

Table 1.
Application Rate (lbs.)

Average Pond Depth (ft.)	Pond Size (ac)		
	1/8	1/4	1/2
1	0.5	0.9	1.9
2	0.9	1.9	3.8
3	1.4	2.8	5.6
4	1.9	3.8	7.5
5	2.3	4.7	9.4
6	2.8	5.6	11.3
7	3.3	6.6	13.1
8	3.8	7.5	15.0

Susceptible Aquatic Weeds for Use Rates in Table 2.

common coontail
 duckweed (rate for **In-season Program**)
 fanwort, cabomba
 Illinois pondweed
 American lotus
 parrot feather
 spatterdock
 spikerush
 waterlily
 watershield

Table 2.
Application Rate (lbs.)

Average Pond Depth (ft.)	Pond Size (ac)		
	1/8	1/4	1/2
1	0.9	1.9	3.8
2	1.9	3.8	7.5
3	2.8	5.6	11.3
4	3.8	7.5	15.0
5	4.7	9.4	18.8
6	5.6	11.3	22.5
7	6.6	13.1	26.3
8	7.5	15.0	30.0

The maximum application rate or sum of all application rates per annual growing cycle is 36 lbs. per acre, 4 feet deep in ponds less than 10 acres in size.

For other pond sizes and depths, use the formula below to calculate the amount of product needed for treatment:

$$\text{lbs product} = \text{pond acreage} \times \text{depth (feet)} \times 7.5$$

How Sonar H4C works

This product controls unwanted aquatic vegetation by restricting the plant's ability to make food, causing it to die. This involves inhibiting development of yellow pigments that protect a plant's chlorophyll from decomposition by sunlight. As the plant's chlorophyll decreases, so does its capacity to produce food.

What to expect

This product is selective and controls target weeds slowly. It lets desirable vegetation re-establish itself, and does not result in oxygen depletion or fish kill. Target aquatic weeds remain under control for

a full season and often longer. It takes 30 to 60 days for this product to control established weeds. You can expect full results within 90 days. Visual symptoms of bleaching gradually appear on the terminal buds, or growing points, of the plant. Some plants are less susceptible and may require treatment at the maximum label rate.

USE RESTRICTIONS

Obtain Required Permits: Consult with appropriate state or local water authorities before applying this product. Permits may be required by state or local public agencies.

Drinking, Fishing and Swimming: Drinking, fishing and swimming are allowed following application. Note below application restrictions around potable water intakes.

Livestock/Pet Consumption: Drinking by livestock and pets is allowed following application.

Potable Water Intakes: Do not apply this product within one-fourth mile (1,320 feet) of any functioning water intake. Before using this product to treat any waters where functioning potable (human consumption) water intakes are present, users must contact a SePRO Total Pond Advisor TOLL FREE at 1-844-766-2727 or email service@seprototal.com to determine the appropriate use rates and application methods.

Irrigation: Do not use in bodies of water that will be used for crop irrigation. It is recommended that users contact SePRO Total Pond Advisor TOLL FREE at 1-844-766-2727 or email service@seprototal.com for additional information.

ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Trees and shrubs growing in treated water may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas. Do not apply more than 9 lbs. of this product per one acre foot (one surface acre, one foot deep) per annual growing cycle in any waters less than 10 acres in size.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of spill, contain material and dispose of as waste.

Container Handling:

Non-refillable Container: Do not reuse or refill this container. **If empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

Warranty Disclaimer: SePRO Corporation warrants that this product conforms to the chemical description on the product label. Testing and research have also determined that this product is reasonably fit for the uses described on the product label. To the extent consistent with applicable law, SePRO Corporation makes no other express or implied warranty of fitness or merchantability nor any other express or implied warranty and any such warranties are expressly disclaimed.

Misuse: Federal law prohibits the use of this product in a manner inconsistent with its label directions. To the extent consistent with applicable law, the buyer assumes responsibility for any adverse consequences if this product is not used according to its label directions. In no case shall SePRO Corporation be liable for any losses or damages resulting from the use, handling or application of this product in a manner inconsistent with its label.

For additional important labeling information regarding SePRO Corporation's Terms and Conditions of Use, Inherent Risks of Use and Limitation of Remedies, please visit <http://seprolabels.com/terms> or scan the image below.



Need help? A SePRO Total Pond Advisor can remotely and accurately measure the size of your pond and discuss a personalized strategy to keep your pond clear of unwanted weeds and algae. Call us TOLL FREE at 1-844-766-2727 or email service@seprototal.com

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FPL20170113

[VERSION B: Base label for STP ONLY containers]

Sonar H4C

Aquatic Herbicide

[ABN: SePRO Total Pond – Prevent™]

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

KEEP OUT OF REACH OF CHILDREN CAUTION

Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wear long sleeved shirt, long pants, shoes and socks and waterproof gloves.

Refer to the inside of the label booklet for additional precautionary statements and directions for use.

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053 .	

STORAGE AND DISPOSAL
Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, contain material and dispose as waste. Container Handling Non-refillable Container. DO NOT reuse or refill this container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

SePRO Total Pond - Prevent is a trademark of SePRO Corporation.

SePRO Corporation 11550 North Meridian Street, Suite 600, Carmel, IN 46032

EPA Reg. No. 67690-61

[Part No.] _____

EPA Est. No. _____

FPL20170113

Supplemental Label



Sonar® H4C

Aquatic Herbicide

EPA Reg. No. 67690-61

This supplemental labeling in addition to the product label or the container must be in the possession of the user at the time of application. It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Use of Sonar H4C according to this labeling is subject to the use precautions and limitations imposed by the label affixed to the container for Sonar H4C.

Read the entire label affixed to the container and supplemental label before applying.

This supplemental label expires on May 15, 2020 and must not be used or distributed after this date.

Attention: the updated label language includes the following Use Restrictions and Precautions:

Use Restrictions

- **Hydroponic Farming:** Do not use water from a Sonar-treated area for hydroponic farming unless one of the following has been verified for the relevant active water intake and its withdrawal of surface water:
 - A FastEST has been run and the concentration in water at the intake is less than 1 ppb; or
 - A filtration or water treatment process following water intake has been verified analytically to reduce the concentration in potential irrigation water below 1 ppb.
- **Greenhouse and Nursery Plants:** Do not use water from a Sonar-treated area for greenhouse and nursery irrigation unless one of the following has been verified for the relevant active water intake and its withdrawal of surface water:
 - For the irrigation of woody ornamental plants, a FastEST has been run and the concentration at the intake is less than 5 ppb; or
 - For the irrigation of other greenhouse or nursery plants, the concentration is confirmed less than 1 ppb; or
 - A filtration or water treatment process following water intake has been verified analytically to reduce the concentration in potential irrigation water below either the 1 or 5 ppb levels cited above.

- **Water Use Restrictions Following Application (Days)**

Application Rate	Drinking [†]	Fishing	Swimming	Livestock/Pet Consumption	Irrigation ^{††}
Maximum Rate (150 ppb) or less	0	0	0	0	See irrigation instructions below

[†] Note below, under *Potable Water Intakes*, the information for application of this product within ¼ miles (1,320) feet of a functioning potable water intake.

†† Note below, under *Irrigation*, specific time frames or fluridone concentrations that provide the widest safety margin for irrigating with fluridone treated water.

- **Potable Water Intakes:** Concentrations of the active ingredient fluridone up to 150 ppb are allowed in potable water sources; however, in lakes and reservoirs or other sources of potable water, do not apply this product at application rates greater than 20 ppb within one-fourth ($\frac{1}{4}$) mile (1,320 feet) of any functioning potable water intake. At application rates of up to 20 ppb, this product may be applied where functioning potable water intakes are present. **NOTE: Existing potable water intakes which are no longer in use, such as those replaced by connections to potable water wells or a municipal water system, are not considered to be functioning potable water intakes.**
- **Irrigation:** For tobacco, tomatoes, peppers or other plants within the Solanaceae Family and newly seeded crops or newly seeded grasses such as overseeded golf course greens, do not use water treated with this product if concentrations are greater than 5 ppb. It is recommended that a SePRO Aquatic Specialist be consulted prior to commencing irrigation of these sites. When rotating crops, do not plant members of the Solanaceae family in land that has been previously irrigated with fluridone concentrations in excess of 5 ppb without consultation with a SePRO Aquatic Specialist.

Use Precautions

- **Irrigation:** Irrigation with water treated with this product may result in injury to the irrigated vegetation. Follow these precautions and inform those who irrigate from areas treated with this product of the irrigation time frames or FastEST requirements presented in the table below. Follow these time frames and FastEST recommendations to reduce the potential for injury to vegetation irrigated with water treated with this product. Greater potential for crop injury occurs where water treated with this product is applied to crops grown on low organic and sandy soils.

Application Site	Days After Application		
	Established Tree Crops	Established Row Crops/Turf/Plants	Newly Seeded Crops/Seedbeds or Areas to be Planted Including Overseeded Golf Course Greens
Ponds and Static Canals †	7	30	FastEST required
Canals	7	7	FastEST required
Rivers	7	7	FastEST required
Lakes and Reservoirs ††	7	7	FastEST required

† For purposes of this product's labeling, a pond is defined as a body of water 10 acres or less in size. A lake or reservoir is greater than 10 acres.

†† In lakes and reservoirs where one-half or greater of the body of water is treated, use the pond and static canal irrigation precautions.

Where the use of water treated with this product is desired for irrigating crops prior to the time frames established above, the use of a FastEST is recommended to measure the concentration in the treated water. Where a FastEST has determined that concentrations are less than 10 parts per billion, there are no irrigation precautions for irrigating established tree crops, established row crops or turf.

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 FPL20170113
 SePRO Corporation
 11550 North Meridian Street, Suite 600, Carmel, IN 46032

Samek, Karen

From: Samek, Karen
Sent: Tuesday, May 16, 2017 12:18 PM
To: 'Mezin, Laurent'
Subject: RE: Updated labels for 67690-54 (Sonar Genesis) & Sonar H4C (67690-61)
Attachments: 67690-61-20170505.pdf

Hi Laurent,

Attached is the stamped label for your Sonar H4C product (67690-61). Your Sonar Genesis product is still in the QA/QC process but I hope to have it this week. Thank you for all of your help with these labels.

Thanks,
Karen

Karen Samek
Registration Division
Samek.karen@epa.gov
(703) 347-8825

From: Mezin, Laurent [<mailto:LaurentM@sepro.com>]
Sent: Thursday, May 04, 2017 5:50 PM
To: Samek, Karen <Samek.Karen@epa.gov>
Subject: RE: Updated labels for 67690-54 (Sonar Genesis) & Sonar H4C (67690-61)

Karen:

Here is the updated label for Sonar H4C (67690-61), per your comments on the supplemental label.

Thanks,
Laurent

Laurent C. Mézin, Ph. D.
Regulatory and Government Affairs Leader



SePRO Corporation
11550 North Meridian Street, Suite 600 | Carmel, IN 46032 | www.sepro.com

(317) 580 8286 Office
LaurentM@sepro.com

From: Samek, Karen [<mailto:Samek.Karen@epa.gov>]
Sent: Thursday, May 4, 2017 3:33 PM
To: Mezin, Laurent <LaurentM@sepro.com>
Subject: RE: Updated labels for 67690-54 (Sonar Genesis) & Sonar H4C (67690-61)

Hi Laurent,

I'm sorry for the delay. These labels are almost okay. We just need to add a couple of things to the supplemental label in accordance with the Label Review Manual, p. 3-9.

Please see attached edits. Also, if you could send a clean copy without the cover sheet Label notes that would be better for posting on PPLS. Please let me know if you have any questions.

Thanks,

Karen

Karen Samek

Registration division

Samek.karen@epa.gov

(703) 347-8825

Samek, Karen

From: Mezin, Laurent <LaurentM@sepro.com>
Sent: Thursday, May 04, 2017 5:50 PM
To: Samek, Karen
Subject: RE: Updated labels for 67690-54 (Sonar Genesis) & Sonar H4C (67690-61)
Attachments: FPL20170113 Sonar H4C Clean PENDING 20170504 EPA.PDF; FPL20170113 Sonar H4C highlighted PENDING 20170504 EPA.PDF

Categories: Orange Category

Karen:

Here is the updated label for Sonar H4C (67690-61), per your comments on the supplemental label.

Thanks,
Laurent

Laurent C. Mézin, Ph. D.
Regulatory and Government Affairs Leader



SePRO Corporation

11550 North Meridian Street, Suite 600 | Carmel, IN 46032 | www.sepro.com

(317) 580 8286 Office
LaurentM@sepro.com

From: Samek, Karen [mailto:Samek.Karen@epa.gov]
Sent: Thursday, May 4, 2017 3:33 PM
To: Mezin, Laurent <LaurentM@sepro.com>
Subject: RE: Updated labels for 67690-54 (Sonar Genesis) & Sonar H4C (67690-61)

Hi Laurent,

I'm sorry for the delay. These labels are almost okay. We just need to add a couple of things to the supplemental label in accordance with the Label Review Manual, p. 3-9.

Please see attached edits. Also, if you could send a clean copy without the cover sheet Label notes that would be better for posting on PPLS. Please let me know if you have any questions.

Thanks,
Karen

Karen Samek
Registration division
Samek.karen@epa.gov
(703) 347-8825

Dan said OK to this
Language

Samek, Karen

Subject: Fluridone issue
Location: DCRoomPYS7100/Potomac-Yard-One

Start: Thu 2/2/2017 1:00 PM
End: Thu 2/2/2017 1:30 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Samek, Karen
Required Attendees: Kenny, Daniel; Kathryn Montague
Resources: DCRoomPYS7100/Potomac-Yard-One

Dan said OK
to language
2/2/17

- **Hydroponic Farming:** Do not use water from a Sonar-treated area for hydroponic farming unless one of the following has been verified for the relevant active water intake and its withdrawal of surface water:
 - A FasTEST has been run and the concentration in water at the intake is less than 1 ppb; or
 - A filtration or water treatment process following water intake has been verified analytically to reduce the concentration in potential irrigation water below 1 ppb.
- **Greenhouse and Nursery Plants:** Do not use water from a Sonar-treated area for greenhouse and nursery irrigation unless one of the following has been verified for the relevant active water intake and its withdrawal of surface water:
 - For the irrigation of woody ornamental plants, a FasTEST has been run and the concentration at the intake is less than 5 ppb; or
 - For the irrigation of other greenhouse or nursery plants, the concentration is confirmed less than 1 ppb; or
 - A filtration or water treatment process following water intake has been verified analytically to reduce the concentration in potential irrigation water below either the 1 or 5 ppb levels cited above.

Samek, Karen

From: Mezin, Laurent <LaurentM@sepro.com>
Sent: Friday, January 13, 2017 9:38 AM
To: Samek, Karen
Subject: RE: pending Label amendment applications for 67690-61
Attachments: FPL20170113 Sonar H4C highlighted PENDING 20170113 EPA.PDF; 20170113 Sonar proposed text.pdf; FPL20170113 Sonar H4C Clean PENDING 20170113 EPA.PDF

Categories: Red Category

Good morning, Karen.

I hope you had a great holiday season and the new year has gotten to a good, fresh start for you.

I just gave you a call to let you know that we (SePRO) have modified the pending 'hydroponic farming' and 'greenhouse and nursery plant' irrigation text on this pending Sonar H4C label, to better conform to the EPA request for enforceability.

I have attached to this email a short file containing just the newly updated proposed text, as well as full labels (clean and highlighted) for Sonar H4C containing the updated text.

Should this prove to be acceptable, I will include the text in the other four pending Sonar labels and submit them to EPA.

I look forward to your review.

Have a great day,
Laurent

Laurent C. Mézin, Ph. D.
Regulatory and Government Affairs Leader



SePRO Corporation

11550 North Meridian Street, Suite 600 | Carmel, IN 46032 | www.sepro.com

(317) 580 8286 Office
LaurentM@sepro.com

Samek, Karen

From: Mezin, Laurent <LaurentM@sepro.com>
Sent: Thursday, September 08, 2016 9:13 AM
To: Samek, Karen
Cc: Montague, Kathryn V.
Subject: RE: pending Label amendment applications for 67690-54 and 67690-61
Attachments: FPL20160908 SP1908 Sonar Genesis Highlighted PENDING 20160908 EPA.PDF;
FPL20160908 SP1908 Sonar Genesis Clean PENDING 20160908 EPA.PDF

Categories: Green Category

Good morning, Karen:

Please find attached our updated labels (clean and highlighted) for Sonar Genesis per your comments of yesterday. We added explicit upper concentrations, and changed the text as highlighted below:

- **Hydroponic Farming:** Do not use water from a Sonar-treated site for hydroponic farming unless a FasTEST has been run and one of the following conditions apply:
 - Concentrations are less than 1 ppb; or
 - Concentrations are 1-5 ppb and the user has consulted with SePRO Corporation to get approval to use the treated water; or
 - A filtration or water treatment process following water intake reduces concentrations in potential irrigation water to one of the conditions listed above.
- **Greenhouse and Nursery Plants:** Do not use water from a Sonar-treated site for greenhouse and nursery irrigation unless a FasTEST has been run and one of the following conditions apply:
 - For the irrigation of woody ornamental plants, concentrations are less than 5 ppb; or
 - For the irrigation of other greenhouse or nursery plants, concentrations are less than 1 ppb; or
 - Concentrations are less than 5 ppb and the user has consulted with SePRO Corporation to get approval to use the treated water; or

A filtration or water treatment process following water intake reduces concentrations in potential irrigation water to one of the conditions listed above.

If this works, I'll send the Sonar H4C label as well.

Thanks again for the review!

Laurent

Laurent C. Mézin, Ph. D.
Regulatory and Government Affairs Leader



SePRO Corporation

11550 North Meridian Street, Suite 600 | Carmel, IN 46032 | www.sepro.com

(317) 580 8286 Office
LaurentM@sepro.com

From: Samek, Karen [mailto:Samek.Karen@epa.gov]
Sent: Wednesday, September 7, 2016 11:40 AM
To: Mezin, Laurent <LaurentM@sepro.com>
Cc: Montague, Kathryn V. <Montague.Kathryn@epa.gov>
Subject: RE: pending Label amendment applications for 67690-54 and 67690-61

Hi Laurent,

I met with Dan on your proposed language and the verdict is that we still need a clear maximum concentration limit stated on the label to be enforceable for the Hydroponic Farming and Greenhouse and Nursery plants uses. Please see the highlighted text on the attached labels for 67690-54 and 67690-61. Please give me a call if you want to discuss further.

Thanks,

Karen

Karen Samek
Registration Division
Samek.karen@epa.gov
(703) 347-8825

From: Mezin, Laurent [mailto:LaurentM@sepro.com]
Sent: Thursday, September 01, 2016 1:09 PM
To: Samek, Karen <Samek.Karen@epa.gov>
Subject: RE: pending Label amendment applications for 67690-54 and 67690-61

Good afternoon, Karen,

I am sending you the updated labels for Sonar Genesis (here) and Sonar H4C (next email). These try to address your comments from earlier in the summer.

I sincerely apologize that these took so long to get back to you. We had a lot of thinking and discussions around how to address the remaining comments. I hope our changes will satisfy the Agency's requirements.

I'll send the Sonar H4C next.

Let me know if you have any comment or concern!

Thanks,
Laurent

Laurent C. Mézin, Ph. D.
Regulatory and Government Affairs Leader



SePRO Corporation
11550 North Meridian Street, Suite 600 | Carmel, IN 46032 | www.sepro.com

Samek, Karen

From: Samek, Karen
Sent: Wednesday, September 07, 2016 11:40 AM
To: Mezin, Laurent
Cc: Kathryn Montague
Subject: RE: pending Label amendment applications for 67690-54 and 67690-61
Attachments: FPL20160901 SP1908 Sonar Genesis Clean PENDING 20160901 EPA.PDF; FPL20160901 Sonar H4C Clean PENDING 20160901b EPA.PDF

Hi Laurent,

I met with Dan on your proposed language and the verdict is that we still need a clear maximum concentration limit stated on the label to be enforceable for the Hydroponic Farming and Greenhouse an Nursery plants uses. Please see the highlighted text on the attached labels for 67690-54 and 67690-61. Please give me a call if you want to discuss further.

Thanks,

Karen

Karen Samek
Registration Division
Samek.karen@epa.gov
(703) 347-8825

From: Mezin, Laurent [mailto:LaurentM@sepro.com]
Sent: Thursday, September 01, 2016 1:09 PM
To: Samek, Karen <Samek.Karen@epa.gov>
Subject: RE: pending Label amendment applications for 67690-54 and 67690-61

Good afternoon, Karen,

I am sending you the updated labels for Sonar Genesis (here) and Sonar H4C (next email). These try to address your comments from earlier in the summer.

I sincerely apologize that these took so long to get back to you. We had a lot of thinking and discussions around how to address the remaining comments. I hope our changes will satisfy the Agency's requirements.

I'll send the Sonar H4C next.

Let me know if you have any comment or concern!

Thanks,
Laurent

Laurent C. Mézin, Ph. D.
Regulatory and Government Affairs Leader



SePRO Corporation

11550 North Meridian Street, Suite 600 | Carmel, IN 46032 | www.sepro.com

(317) 580 8286 Office
LaurentM@sepro.com

Samek, Karen

From: Mezin, Laurent <LaurentM@sepro.com>
Sent: Wednesday, June 01, 2016 3:08 PM
To: Samek, Karen
Cc: Montague, Kathryn V.
Subject: RE: pending Label amendment applications for 67690-54 and 67690-61

Categories: Red Category

Hi, Karen,

Per our conversation of yesterday, please find attached a few variations on the greenhouse and nursery plant text from Sonar Genesis.. Note that the greenhouse and nursery plant irrigation language was added to the label to minimize the risk of sensitive plant injury and resulting liability to SePRO. There are too many possible greenhouse or nursery scenarios to list on the label, depending on species, growth stage etc., from very sensitive tomato seedlings to insensitive woody oak trees in 30-gallon pots which can be irrigated with no concerns at concentrations much greater than 1ppb.

Current language

- **Greenhouse and Nursery Plants:** Consult with SePRO Corporation for site-specific recommendations prior to any use water treated with this product for irrigating greenhouse or nursery plants. Without site-specific guidance from SePRO, do not use water treated with this product for irrigating greenhouse or nursery plants unless a FastEST has been run and confirmed that concentrations are less than 1 ppb

Proposed language #1

- **Greenhouse and Nursery Plants:** Where the use of treated water is desired for irrigating crops before a FastEST has been run and confirmed that concentrations are less than 1 ppb, consult with SePRO Corporation for site-specific guidance based upon an assessment of your crop's sensitivity and irrigation risk .

Proposed language #2

- **Greenhouse and Nursery Plants:** To avoid the risk of injury to sensitive plants, do not use water treated with this product for irrigating greenhouse or nursery plants unless a FastEST has been run and confirmed that concentrations are less than 1 ppb. Where the use of treated water is desired for irrigating less sensitive crops before a FastEST has confirmed that concentrations are less than 1 ppb, consult with SePRO Corporation for site-specific guidance based upon an assessment of your crop's sensitivity and irrigation risk .

Proposed language #3

- **Greenhouse and Nursery Plants:** Do not use water treated with this product for irrigating sensitive greenhouse or nursery plants unless a FastEST has been run and confirmed that concentrations are less than 1 ppb. Consult with SePRO Corporation for site-specific guidance based upon an assessment of your crop's sensitivity and irrigation risk prior to using treated water when a FastEST has not been run or confirmed that concentrations are less than 1 ppb.

Thanks,
Laurent

Laurent C. Mézin, Ph. D.



SePRO Corporation

11550 North Meridian Street, Suite 600 | Carmel, IN 46032 | www.sepro.com

(317) 580 8286 Office
LaurentM@sepro.com

From: Samek, Karen [<mailto:Samek.Karen@epa.gov>]
Sent: Thursday, May 26, 2016 10:29 AM
To: Mezin, Laurent <LaurentM@sepro.com>
Cc: Montague, Kathryn V. <Montague.Kathryn@epa.gov>
Subject: RE: pending Label amendment applications for 67690-54 and 67690-61

Hi Laurent,

We still have some concerns with the language for the Greenhouse and Nursery plants and hydroponic farming language and have suggested some wording in the attached labels to make the language enforceable, along with a few other additional edits.

Also, you mentioned that you wanted to add supplemental labels and I was wondering if you still want to submit those.

Please let me know if you have any questions.

Thanks,
Karen

Karen Samek
Registration Division
Samek.karen@epa.gov
(703) 347-8825

From: Mezin, Laurent [<mailto:LaurentM@sepro.com>]
Sent: Monday, May 02, 2016 3:47 PM
To: Samek, Karen <Samek.Karen@epa.gov>
Subject: RE: pending Label amendment applications for 67690-54

Karen:

Please find attached the updated label for Sonar Genesis (67690-54), per our discussion of this morning. I returned the 'Restrictions and precautions' text to the currently approved version (with minor changes) but kept the other changes.

Please let me know if you have any questions or concerns.

Thanks, and Happy Monday.

Laurent C. Mézin, Ph. D.
Regulatory and Government Affairs Leader



SePRO Corporation

11550 North Meridian Street, Suite 600 | Carmel, IN 46032 | www.sepro.com

(317) 580 8286 Office
LaurentM@sepro.com

From: Samek, Karen [<mailto:Samek.Karen@epa.gov>]

Sent: Wednesday, April 20, 2016 12:00 PM

To: Mezin, Laurent <LaurentM@sepro.com>

Cc: Montague, Kathryn V. <Montague.Kathryn@epa.gov>; Meadows, Sarah <Meadows.Sarah@epa.gov>

Subject: RE: pending Label amendment applications for 67690-54

Hi Laurent,

Attached are some additional edits for your consideration on 67690-54. Please let me know if you have any questions.

Thanks,
Karen

Karen Samek
Registration Division
Samek.karen@epa.gov
(703) 347-8825

Samek, Karen

From: Samek, Karen
Sent: Thursday, May 26, 2016 10:29 AM
To: 'Mezin, Laurent'
Cc: Kathryn Montague
Subject: RE: pending Label amendment applications for 67690-54 and 67690-61
Attachments: FPL20160502 SP1908 Sonar Genesis Clean PENDING 20160502 EPA.pdf; FPL20160311 Sonar H4C Clean PENDING 20160311 EPAversion.pdf

Hi Laurent,

We still have some concerns with the language for the Greenhouse and Nursery plants and hydroponic farming language and have suggested some wording in the attached labels to make the language enforceable, along with a few other additional edits.

Also, you mentioned that you wanted to add supplemental labels and I was wondering if you still want to submit those.

Please let me know if you have any questions.

Thanks,
Karen

Karen Samek
Registration Division
Samek.karen@epa.gov
(703) 347-8825

From: Mezin, Laurent [mailto:LaurentM@sepro.com]
Sent: Monday, May 02, 2016 3:47 PM
To: Samek, Karen <Samek.Karen@epa.gov>
Subject: RE: pending Label amendment applications for 67690-54

Karen:

Please find attached the updated label for Sonar Genesis (67690-54), per our discussion of this morning. I returned the 'Restrictions and precautions' text to the currently approved version (with minor changes) but kept the other changes.

Please let me know if you have any questions or concerns.

Thanks, and Happy Monday.

Laurent C. Mézin, Ph. D.
Regulatory and Government Affairs Leader



SePRO Corporation
11550 North Meridian Street, Suite 600 | Carmel, IN 46032 | www.sepro.com

From: Samek, Karen [<mailto:Samek.Karen@epa.gov>]
Sent: Wednesday, April 20, 2016 12:00 PM
To: Mezin, Laurent <LaurentM@sepro.com>
Cc: Montague, Kathryn V. <Montague.Kathryn@epa.gov>; Meadows, Sarah <Meadows.Sarah@epa.gov>
Subject: RE: pending Label amendment applications for 67690-54

Hi Laurent,

Attached are some additional edits for your consideration on 67690-54. Please let me know if you have any questions.

Thanks,
Karen

Karen Samek
Registration Division
Samek.karen@epa.gov
(703) 347-8825

Samek, Karen

From: Mezin, Laurent <LaurentM@sepro.com>
Sent: Wednesday, April 20, 2016 11:16 AM
To: Samek, Karen
Subject: RE: pending Label amendment applications for 67690-61
Attachments: FPL20160311 Sonar H4C Clean PENDING 20160311 EPAversion.pdf; FPL20160311 Sonar H4C highlighted PENDING 20160311 EPAversion.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Green Category, Red Category

Hi, Karen.

Thanks for the update, and letting me know the status. I've attached the label requested.

Can you confirm the Agency's main issue is with the greenhouse irrigation and hydroponics farming text? If you think it might help, we would be willing to have a conference call to discuss the issue.

I was also wondering if we could add a supplemental label to these two actions. We've gotten past our manufacturing date where we wanted to use these labels, and the label changes will take longer to go to the field without the supplemental labels.

I hope you're enjoying Spring. It seems it finally arrived last week with temperatures climbing into the 80s 'suddenly'.

Thanks,
Laurent

Laurent C. Mézin, Ph. D.
Regulatory and Government Affairs Leader



SePRO Corporation

11550 North Meridian Street, Suite 600 | Carmel, IN 46032 | www.sepro.com

(317) 580 8286 Office
LaurentM@sepro.com

From: Samek, Karen [mailto:Samek.Karen@epa.gov]
Sent: Wednesday, April 20, 2016 10:38 AM
To: Mezin, Laurent <LaurentM@sepro.com>
Subject: FW: pending Label amendment applications for 67690-61

Hi Laurent,
We're still trying to work out some of the issues on your label. Could you send me the latest version of 67690-61 that you have. The attached are for the -54 product which I already have.
Thanks,
Karen

From: Mezin, Laurent [<mailto:LaurentM@sepro.com>]
Sent: Friday, March 11, 2016 4:33 PM
To: Samek, Karen <Samek.Karen@epa.gov>
Cc: Montague, Kathryn V. <Montague.Kathryn@epa.gov>; Meadows, Sarah <Meadows.Sarah@epa.gov>
Subject: RE: pending Label amendment applications for 67690-61

Dear Karen:

Please find attached the updated labels for Sonar H4C (67690-61). More of the comments are similar to the -54 labels I just sent back.

Thank you very much,
Laurent

Laurent C. Mézin, Ph. D.
Regulatory and Government Affairs Leader



SePRO Corporation
11550 North Meridian Street, Suite 600 | Carmel, IN 46032 | www.sepro.com

(317) 580 8286 Office
LaurentM@sepro.com

From: Mezin, Laurent
Sent: Friday, March 11, 2016 4:25 PM
To: 'Samek, Karen' <Samek.Karen@epa.gov>
Cc: Montague, Kathryn V. <Montague.Kathryn@epa.gov>; Meadows, Sarah <Meadows.Sarah@epa.gov>
Subject: RE: pending Label amendment applications for 67690-54

Good afternoon, Karen:

Please find attached the updated label for Sonar Genesis (67690-54). My apologies for the few extra days to get this to you.

Note two things in particular:

1. I have attached a separate file that includes our more extensive comments/discussion on the proposed hydroponics and greenhouse text (valid both for this and the Sonar H4C labels).
2. I was not able to find the regs that say the Spanish precautionary language has to be on non-WPS labels. In fact, a quick look in a random non-WPS danger label (a bleach product) showed it wasn't there. So I have not made that change yet, and I'd appreciate some help resolving this issue.

I will send the Sonar H4C label next.

Have a great weekend,
Laurent

Laurent C. Mézin, Ph. D.
Regulatory and Government Affairs Leader



SePRO Corporation

11550 North Meridian Street, Suite 600 | Carmel, IN 46032 | www.sepro.com

(317) 580 8286 Office
LaurentM@sepro.com

From: Samek, Karen [<mailto:Samek.Karen@epa.gov>]
Sent: Tuesday, March 08, 2016 9:28 AM
To: Mezin, Laurent <LaurentM@sepro.com>
Cc: Montague, Kathryn V. <Montague.Kathryn@epa.gov>; Meadows, Sarah <Meadows.Sarah@epa.gov>
Subject: RE: pending Label amendment applications for 67690-61

Hi Laurent,

The change you mentioned below for static canals is fine. I have attached a few more edits for your consideration for 67690-61 and 67690-54. You can add the static canal rate change if you want. Please give me a call and we can discuss these edits if you have any questions.

Thanks,
Karen

Karen Samek
Registration Division
Samek.karen@epa.gov
(703) 347-8825

From: Mezin, Laurent [<mailto:LaurentM@sepro.com>]
Sent: Wednesday, March 02, 2016 10:44 AM
To: Samek, Karen <Samek.Karen@epa.gov>
Cc: Montague, Kathryn V. <Montague.Kathryn@epa.gov>; Meadows, Sarah <Meadows.Sarah@epa.gov>
Subject: pending Label amendment applications for 67690-61

Good morning,

I have just received a late comment from my side on the Sonar H4C (67690-61) pending label, and I wonder if there is still time for you to consider this change.

It is in response to a comment on page 11 regarding application rates in static canals. The rate in terms of pounds per surface acre is more familiar to applicators and is defensible. I have attached a screen grab of what the updated text and comment looks like.

If you would consider or approve this change, I have updated labels ready to send to you. That is the only change I made.

Please accept my apologies for this late change, and let me know if you have any question.

Thank you very much,
Laurent

Laurent C. Mézin, Ph. D.
Regulatory and Government Affairs Leader



SePRO Corporation

11550 North Meridian Street, Suite 600 | Carmel, IN 46032 | www.sepro.com

(317) 580 8286 Office
LaurentM@sepro.com

From: Mezin, Laurent
Sent: Friday, February 26, 2016 1:59 PM
To: 'Samek, Karen' <Samek.Karen@epa.gov>
Cc: Montague, Kathryn V. <Montague.Kathryn@epa.gov>; Meadows, Sarah <Meadows.Sarah@epa.gov>
Subject: RE: Your pending Label amendment applications for 67690-54 and 67690-61

Good afternoon,

Please find attached the clean and highlighted version for both these labels, addressing the Agency's comments of yesterday.

Please let me know if you would like to discuss.

Thank you,
Laurent

Laurent C. Mézin, Ph. D.
Regulatory and Government Affairs Leader



SePRO Corporation

11550 North Meridian Street, Suite 600 | Carmel, IN 46032 | www.sepro.com

(317) 580 8286 Office
LaurentM@sepro.com

From: Samek, Karen [<mailto:Samek.Karen@epa.gov>]
Sent: Thursday, February 25, 2016 5:18 PM
To: Mezin, Laurent <LaurentM@sepro.com>
Cc: Montague, Kathryn V. <Montague.Kathryn@epa.gov>; Meadows, Sarah <Meadows.Sarah@epa.gov>
Subject: RE: Your pending Label amendment applications for 67690-54 and 67690-61

Hi Laurent,

Attached are some edits for your consideration for your pending label amendment applications for 67690-61 and 67690-54. I would like the opportunity to discuss some of these edits to get a better idea of how the products will be used and by whom. I will try to call you.

Thanks,
Karen

Karen Samek
Registration Division
Samek.karen@epa.gov
(703) 347-8825

From: Mezin, Laurent [<mailto:LaurentM@sepro.com>]
Sent: Monday, January 25, 2016 3:49 PM
To: Samek, Karen <Samek.Karen@epa.gov>
Cc: Montague, Kathryn V. <Montague.Kathryn@epa.gov>
Subject: RE: Your pending Label amendment applications for 67690-54 and 67690-61

Dear Kay and Karen:

I hope you had a safe weekend and managed to dig out from under the snow.

Thank you for giving me the opportunity to make the discussed update. Please find attached the updated pending label for Sonar H4C (67690-61). I will send the other label today.

Best regards,
Laurent

Laurent C. Mézin, Ph. D.
Regulatory and Government Affairs Leader



SePRO Corporation
11550 North Meridian Street, Suite 600 | Carmel, IN 46032 | www.sepro.com
(317) 580 8286 Office
LaurentM@sepro.com

From: Samek, Karen [<mailto:Samek.Karen@epa.gov>]
Sent: Friday, January 22, 2016 1:51 PM
To: Mezin, Laurent <LaurentM@sepro.com>
Cc: Montague, Kathryn V. <Montague.Kathryn@epa.gov>
Subject: Your pending Label amendment applications for 67690-54 and 67690-61

Dear Laurent,

Kay Montague let me know that you would like to make some additional changes to the labels which are currently under review for pending label amendments with the Agency. (EPA Reg. Nos. 67690-54 and 67690-61). If you could send me electronic copies of the new versions you would like us to include and review as part of the current pending applications that would be fine. Please send the new electronic versions of the labels to me at samek.karen@epa.gov and I will include your changes in my review of your labels. If you have any questions please let me know.

Best regards,

Karen

Karen Samek
Registration Division
samek.karen@epa.gov
(703) 347-8825

S 975592

Milestone Email

Regulatory Type: Product Registration - Section 3

Registration: ☐ Yes ☒ No

Application Type: Amendment

Fee For Service: ☐ Yes ☒ No

Billable: ☐ Yes ☒ No

Company: 67690 SEPRO CORPORATION

V

Risk Manager: Registration Division, Risk Management Team 23

Product #: 67690-61

Product Name: SONAR H4C

Overdue:

Me Too
Section 3

Me Too Product
Name:

Application Date: 12-Oct-2015

OPP Rec'd Date: 14-Oct-2015

Front End Date: 14-Oct-2015

Risk Manager Send Date: 15-Oct-2015

FFS Due Date:

Negotiated Due Date:

OPP Target Date:

Fast Track: ☐

Waiting Period: ☐

Receipt Description:

AMENDMENT

Form 1: ☐

Signature Date:

Form 2: ☐

Signature Date:

Print Letter

Enter More Information

Tracking

Receipt Content

Paper Label

View/Edit

New Ingredient

Request Date:

New Ingredient

Received Date:

FAST-TRACK AMENDMENTS – Completeness Screening Checklist

Expert's In-Processing Signature: K. M. M. M.

Date: 10/20

PM #: 23

EPA Reg. Number: <u>67690-61</u>		EPA Receipt Date: <u>10/14/15</u>		
	Checklist Item	Yes	No	N/A
1	Application Form (EPA Form 8570-1) - signed?	<input checked="" type="checkbox"/>		
2	Confidential Statement of Formula (EPA Form 8570-29) - signed?			
3	Certification with Respect to Citation of Data (EPA Form 8570-34) - signed?			
4	Formulator's Exemption Statement (EPA Form 8570-27) - signed?			
5	Data Matrix (EPA Form 8570-35) [Applicable for adding me-too uses] - signed?			
	a) Selective Method?			
	b) Cite-All Method?			
	c) Public copy of Matrix provided? See PR Notice 98-5			
6	Is Label included? (5 copies)	<input checked="" type="checkbox"/>		
	a) Electronic Label submitted?			
Comments:				



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

October 15, 2015

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

LAURENT MEZIN, PH.D.
SEPRO CORPORATION
11550 N. MERIDIAN ST., SUITE 600
CARMEL, IN 46032-4565

PRODUCT NAME: SONAR H4C
COMPANY NAME: SEPRO CORPORATION
OPP IDENTIFICATION NUMBER:
EPA FILE SYMBOL: 67690-61
EPA RECEIPT DATE: 10/14/15

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Registration Division, Risk Management Team 23, at (703) 305-1243.

Sincerely,

Front End Processing Staff
Information Services Branch
Information Technology & Resources Management Division



Fee for Service

{975592G~

This package includes the following

- ☐ New Registration
- ☒ Amendment

- ☐ Studies? ☐ Fee Waiver?
- ☐ volpay % Reduction: ____

for Division

- ☐ AD
- ☐ BPPD
- ☒ RD

Risk Mgr. 23

Receipt No.

S- 975592

EPA File Symbol/Reg. No.

67690-61

Pin-Punch Date:

10/14/2015



This item is NOT subject to FFS action.

Action Code:

Requested:

Granted:

Amount Due: \$ _____

Parent/Child Decisions:

☒ Inert Cleared for Intended Use

☐ Uncleared Inert in Product

Reviewer: Bruno J. Garcia

Date: 10-15-15

Remarks:



SePRO Corporation • 11550 North Meridian Street • Suite 600 • Carmel, Indiana 46032-4565
Phone: (317) 580-8282 Fax: (317) 428-4577

12 October 2015

Kathryn Montague, PM 23
Document Processing Desk (AMEND)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

**RE: Sonar H4C (EPA Reg. No. 67690-61)
Submission of 90-day Fast Track Amendment to Update the Product Label**

Dear Ms. Montague:

SePRO Corporation (SePRO, EPA Company Number 67690) is submitting a 90-day fast track amendment to revise the product label for the product, "Sonar H4C" (EPA Reg. No. 67690-61).

The label revisions include adding new Warranty Disclaimer and Misuse statements with directions to access other Terms and Conditions via the Web, minor updates and typographical changes to both sections of the label for clarity and consistency, (primarily for sub-label B for retail residential use), removal of refillable container text both in Contents statements and Storage and Disposal sections, and changing product references by name within the text to "this product" throughout.

The following enclosed items support this submission:

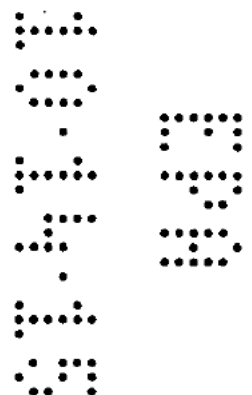
- Cover letter (this document);
- Application for Registration, EPA Form 8570-1;
- Five (5) copies of the label, (one copy with changes highlighted and four clean copies)

If you have any questions, please do not hesitate to contact me at (317) 580-8286 or at LaurentM@sepro.com.

Best Regards,

Laurent Mézin
Regulatory and Government Affairs Leader

Enclosures



EPA United States Environmental Protection Agency Washington, DC 20460	<input type="checkbox"/> Registration <input checked="" type="checkbox"/> Amendment <input type="checkbox"/> Other	OPP Identifier Number
---	---	-----------------------

Application for Pesticide - Section I

1. Company/Product Number 67690-61	2. EPA Product Manager Kathryn Montague	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) SePRO Corporation / Sonar H4C	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) SePRO CORPORATION 11550 N. Meridian St., Suite 600 Carmel, IN 46032 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(I), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

Section II

<input checked="" type="checkbox"/> Amendment - Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated XX-XX-XX <input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter <input type="checkbox"/> "Me Too" Application <input type="checkbox"/> Other - Explain below.
---	--

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Update the product label

Section III

1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input checked="" type="checkbox"/> Paper <input checked="" type="checkbox"/> Other (Specify) Plastic Bag
*Certification must be submitted		If "Yes" Unit Packaging wgt. No. per Container	If "Yes" Package wgt. No. per Container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1 - 100 lbs.	5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product

6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Other Stickered <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled
---	-------------------------

Section IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Laurent C. Mézin	Title Regulatory and Government Affairs Leader	Telephone No. (Include Area Code) (317) 590-8286

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature By: 	3. Title Regulatory and Government Affairs Leader
Printed Name: Laurent C. Mézin	5. Date: 12 October 2015	6. Date Application Received (Stamped)

Sonar[®] H4C

Aquatic Herbicide

Sonar[®] H4C, 67690-61

EPA Reg. No. 67690-61

FPL20151006 clean

ABN: SePRO Total Pond – Prevent

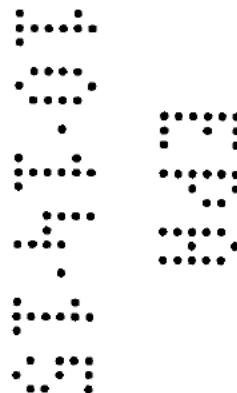
Version A - Professional uses sub-label	pp. 1-14
Version B – Retail Consumer uses sub-label	pp. 14-21

Registration Notes: Based on EPA-Stamped label with FPL20141006

Label Notes:

Label changes:

1. Updated FPL date
2. Removed "Refillable" text from Storage and Disposal language for Version A.
3. Converted S&D text to appropriate language for non-dilutable solid product in a non-rigid non-refillable container.
4. Minor text and format changes to Version B for clarity.
5. References to product name are standardized and/or changed to "this product".
6. Added revised Warranty Disclaimer and Misuse sections.
7. Paragraphs within the Directions for Use have been re-ordered to keep consistent with other products in the SePRO Total Pond line.





Sonar® H4C

Aquatic Herbicide

For management of aquatic vegetation in fresh water ponds, lakes, reservoirs (including inlets and tributaries), potable water sources, drainage canals, irrigation canals and rivers.

Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1*H*)-pyridinone..... 2.7%

Other Ingredients..... 97.3%

TOTAL..... 100.0%

Contains 0.027 lbs. active ingredient per pound.

Keep Out of Reach of Children

CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(If you do not understand the label, find someone to explain it to you in detail.)

Refer to inside of label booklet for additional precautionary statements and directions for use including first aid and storage and disposal.

Notice: Read the entire label before using. Use only according to label directions. Before buying or using this product, read Warranty Disclaimer and Misuse statements inside label booklet. If terms are unacceptable, return at once unopened.

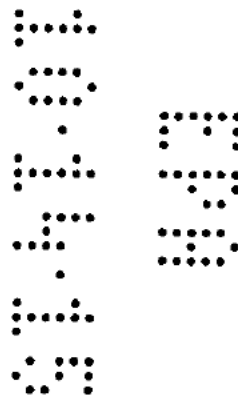
FIRST AID	
If swallowed	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053.	

EPA Reg. No. 67690-61
FPL20151006

Sonar® H4C, 67690-61
EPA Est. No. _____
[SPC -] _____

SePRO Corporation • 11550 N. Meridian Street, Suite 600 • Carmel, IN 46032, U.S.A.

Net weight _____ (Non-refillable)



[VERSION A: Label booklet text, all non-STP containers]

PRECAUTIONARY STATEMENTS**Hazards to Humans and Domestic Animals****KEEP OUT OF REACH OF CHILDREN
CAUTION/PRECAUCIÓN**

Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wear long sleeved shirt, long pants, shoes and socks.

FIRST AID

If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center for treatment advice.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call **INFOTRAC** at **1-800-535-5053**.

USER SAFETY RECOMMENDATIONS

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Trees and shrubs growing in water treated with this product may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read all directions carefully before applying this product.

PRODUCT INFORMATION

Sonar H4C is a selective systemic aquatic herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs (including inlets and tributaries), drainage canals, irrigation canals, and rivers. This product is a pelleted formulation containing 2.7% fluridone designed to provide enhanced numbers of pellets (greater coverage) in treated areas versus other Sonar pellet formulations at equivalent herbicide dosing. This higher density of pellets has the potential to improve herbicide contact with target vegetation in higher exchange treatment scenarios such as spot or small-partial application designs. This product is absorbed from water by plant shoots and from hydrosol by the roots of aquatic vascular plants. It is important to maintain this product in contact with the target plants for as long as possible. Rapid water movement or any condition which results in rapid dilution of this product in treated water will reduce its effectiveness. In susceptible plants, this product inhibits the formation of carotene. In the absence of carotene, chlorophyll is rapidly degraded by sunlight.

Herbicidal symptoms of this product appear in seven to ten days and appear as white (chlorotic) or pink growing points. Under optimum conditions, 30 to 90 days are required before the desired level of aquatic weed management is achieved with this product. Species susceptibility to this product may vary depending on time of year, stage of growth and water movement. For best results, apply this product prior to initiation of weed growth or when weeds begin active growth. Application to mature target plants may require an application rate at the higher end of the specified rate range and may take longer to control.

Sonar H4C is not corrosive to application equipment.

The label provides recommendations on the use of a chemical analysis for the active ingredient. SePRO Corporation recommends the use of a High-Performance Liquid Chromatography (HPLC) for the determination of the active ingredient concentration in the water. Contact SePRO Corporation to incorporate this test, known as a FastEST, into your treatment program. Other proven chemical analyses for the active ingredient may also be used. The FastEST is referenced in this label as the preferred method for the rapid determination of the concentration of the active ingredient in the water.

Application rates are provided in pounds of product to achieve a desired concentration of the active ingredient in parts per billion (ppb). **The maximum application rate or sum of all application rates is 90 ppb in ponds (< 10 Acres) and 150 ppb in lakes and reservoirs per annual growth cycle.** This maximum concentration is the amount of product calculated as the target application rate, NOT determined by testing the concentrations of the active ingredient in the treated water.

Use Restrictions

- **Obtain Required Permits:** Consult with appropriate state or local water authorities before applying this product. Permits may be required by state or local public agencies.
- **New York State:** Application of this product is not permitted in waters less than two (2) feet deep, except as permitted under FIFRA Section 24(c), Special Local Need registration.
- **Hydroponic Farming:** Do not use water treated with this product for hydroponic farming unless a FastEST has been run and confirmed that concentrations are less than 1 ppb.
- **Greenhouse and Nursery Plants:** Consult with SePRO Corporation for site-specific recommendations prior to any use of water treated with this product for irrigating greenhouse or nursery plants. Without site-specific guidance from SePRO, do not use

this product treated water for irrigating greenhouse or nursery plants unless a FastEST has been run and confirmed that concentrations are less than 1 ppb.

Water Use Restrictions Following Application (Days)

Application Rate	Drinking†	Fishing	Swimming	Livestock/Pet Consumption	Irrigation††
Maximum Rate (150 ppb) or less	0	0	0	0	See irrigation instructions below

† Note below, under *Potable Water Intakes*, the information for application of this product within ¼ miles (1,320) feet of a functioning potable water intake.

†† Note below, under *Irrigation*, specific time frames or fluridone concentrations that provide the widest safety margin for irrigating with fluridone treated water.

- Potable Water Intakes:** Concentrations of the active ingredient fluridone up to 150 ppb are allowed in potable water sources; however, in lakes and reservoirs or other sources of potable water, do not apply this product at application rates greater than 20 ppb within one-fourth (¼) mile (1,320 feet) of any functioning potable water intake. At application rates of 8-20 ppb, this product may be applied where functioning potable water intakes are present. **NOTE: Existing potable water intakes which are no longer in use, such as those replaced by connections to potable water wells or a municipal water system, are not considered to be functioning potable water intakes.**
- Irrigation:** For tobacco, tomatoes, peppers or other plants within the Solanaceae Family and newly seeded crops or newly seeded grasses such as overseeded golf course greens, do not use water treated with this product if concentrations are greater than 5 ppb; furthermore, when rotating crops, do not plant members of the Solanaceae family in land that has been previously irrigated with fluridone concentrations in excess of 5 ppb without consultation with a SePRO Aquatic Specialist. It is recommended that a SePRO Aquatic Specialist be consulted prior to commencing irrigation of these sites.

Use Precautions

- Irrigation:** Irrigation with water treated with this product may result in injury to the irrigated vegetation. Follow these precautions and inform those who irrigate from areas treated with this product of the irrigation time frames or FastEST requirements presented in the table below. These time frames and FastEST recommendations are suggestions which should be followed to reduce the potential for injury to vegetation irrigated with water treated with this product. Greater potential for crop injury occurs where water treated with this product is applied to crops grown on low organic and sandy soils.

Application Site	Days After Application		
	Established Tree Crops	Established Row Crops/Turf/Plants	Newly Seeded Crops/Seedbeds or Areas to be Planted Including Overseeded Golf Course Greens
Ponds and Static Canals †	7	30	FastEST required
Canals	7	7	FastEST required
Rivers	7	7	FastEST required
Lakes and Reservoirs ††	7	7	FastEST required

† For purposes of this product's labeling, a pond is defined as a body of water 10 acres or less in size. A lake or reservoir is greater than 10 acres.

†† In lakes and reservoirs where one-half or greater of the body of water is treated, use the pond and static canal irrigation precautions.

Where the use of water treated with this product is desired for irrigating crops prior to the time frames established above, the use of a FastEST is recommended to measure the concentration in the treated water. Where a FastEST has determined that concentrations are less than 10 parts per billion, there are no irrigation precautions for irrigating established tree crops, established row crops or turf.

PLANT CONTROL INFORMATION

Sonar H4C selectivity is dependent upon dosage, time of year, stage of growth, method of application, and water movement. The following categories, controlled, partially controlled, and not controlled are provided to describe expected efficacy under ideal treatment conditions using higher to maximum label rates. Use of lower rates will increase selectivity of some species listed as controlled or partially controlled. Additional aquatic plants may be controlled, partially controlled, or tolerant to this product. It is recommended to consult a SePRO Aquatic Specialist prior to application of this product to determine a plant's susceptibility to it.

Vascular Aquatic Plants Controlled by Sonar H4C:¹

Submersed Plants:

bladderwort (*Utricularia* spp.)
 common coontail (*Ceratophyllum demersum*)[†]
 common Elodea (*Elodea canadensis*)[†]
 egeria, Brazilian Elodea (*Egeria densa*)
 fanwort, Cabomba (*Cabomba caroliniana*)
 hydrilla (*Hydrilla verticillata*)
 naiad (*Najas* spp.)[†]
 pondweed (*Potamogeton* spp., except Illinois pondweed)[†]
 watermilfoil (*Myriophyllum* spp. except variable-leaf milfoil)

Floating Plants:

azolla (*Azolla* spp.)
 duckweed (*Lemna*, *Landoltia*, and *Spirodela* spp.)

Shoreline Grasses:

paragrass (*Urochloa mutica*)

¹ Species denoted by a dagger (†) are native plants that are often tolerant to fluridone at lower use rates. Please consult a SePRO Aquatic Specialist for appropriate use rates (not to exceed maximum labeled rates) when selective control of exotic species is desired.

Vascular Aquatic Plants Partially Controlled by Sonar H4C:

Submersed Plants:

Illinois pondweed (*Potamogeton illinoensis*)
 limnophila (*Limnophila sessiliflora*)
 tapegrass, American eelgrass (*Vallisneria spiralis*)
 watermilfoil--variable-leaf (*Myriophyllum heterophyllum*)

Emerald Plants:

alligatorweed (*Alternanthera philoxeroides*)
 American lotus (*Nelumbo lutea*)
 cattail (*Typha* spp.)
 creeping waterprimrose (*Ludwigia peploides*)
 parrotfeather (*Myriophyllum aquaticum*)
 smartweed (*Polygonum* spp.)

spatterdock (*Nuphar luteum*)
 spikerush (*Eleocharis* spp.)
 waterlily (*Nymphaea* spp.)
 waterpurslane (*Ludwigia palustris*)
 watershield (*Brasenia schreberi*)

Floating Plants:

salvinia (*Salvinia* spp.)

Shoreline Grasses:

barnyardgrass (*Echinochloa crusgalli*)
 giant cutgrass (*Zizaniopsis miliacea*)
 reed canarygrass (*Phalaris arundinaceae*)
 southern watergrass (*Hydrochloa carolinensis*)
 torpedograss (*Panicum repens*)

Vascular Aquatic Plants Not Controlled by Sonar H4C:

Emerald Plants:

American frogbit (*Limnobium spongia*)
 arrowhead (*Sagittaria* spp.)
 bacopa (*Bacopa* spp.)
 big floatingheart, banana lily (*Nymphoides aquatica*)
 bulrush (*Scirpus* spp.)
 pickerelweed, lanceleaf (*Pontederia* spp.)
 rush (*Juncus* spp.)
 water pennywort (*Hydrocotyle* spp.)

Floating Plants:

floating waterhyacinth (*Eichhornia crassipes*)
 waterlettuce (*Pistia stratiotes*)

Shoreline Grasses:

maiden cane (*Panicum hemitomon*)

NOTE: algae (chara, nitella, and filamentous species) are not controlled by this product.

APPLICATION DIRECTIONS

The aquatic plants present in the treatment site should be identified prior to application to determine their susceptibility to this product. It is important to determine the area (acres) to be treated and the average depth in order to select the proper application rate. Do not exceed the maximum labeled rate for a given treatment site per annual growth cycle.

Application to Ponds

Sonar H4C may be applied to the entire surface area of a pond. For single applications, rates may be selected to provide 45 to 90 ppb to the treated water, although actual concentrations in treated water may be substantially lower at any point in time due to the slow-release formulation of this product. When treating for optimum selective control, lower rates may be applied for sensitive target species. Use the higher rate within the rate range where there is a dense weed mass, when treating more difficult to control species, and for ponds less than 5 acres in size with an average depth less than 4 feet. Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the *Application Rate Calculation—Ponds, Lakes and Reservoirs* section of this label. Split or multiple applications may be used where dilution of treated water is

anticipated; however, the sum of all applications should total 45 to 90 ppb and must not exceed a total of 90 ppb per annual growth cycle.

Average Water Depth of Treatment Site (feet)	Pounds of Sonar H4C per Treated Surface Acre	
	45 ppb	90 ppb
1	4.5	9
2	9	18
3	13.5	27
4	18	36
5	22.5	45
6	27	54
7	31.5	63
8	36	72
9	40.5	81
10	45	90

Application to Lakes and Reservoirs

The following treatments may be used for treating both whole lakes or reservoirs and partial areas of lakes or reservoirs (bays, etc.). For best results in treating partial lakes and reservoirs, treatment areas should be a minimum of 5 acres in size. Treatment of areas smaller than 5 acres or treatment of narrow strips such as boat lanes or shorelines may not produce satisfactory results due to dilution by untreated water. Rate ranges are provided as a guide to include a wide range of environmental factors, such as target species, plant susceptibility, selectivity and other aquatic plant management objectives. Application rates and methods should be selected to meet the specific lake/reservoir aquatic plant management goals.

A. Whole Lake or Reservoir Treatments (Limited or No Water Discharge)

Single Application to Whole Lakes or Reservoirs

Where single applications to whole lakes or reservoirs are desired, apply this product at an application rate not to exceed 90 ppb, and in a suggested range of 16 to 90 ppb. Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the *Application Rate Calculation—Ponds, Lakes and Reservoirs* section of this label. Choose an application rate not to exceed 90 ppb to meet the aquatic plant management objective. **Where greater plant selectivity is desired such as when controlling Eurasian watermilfoil and curlyleaf pondweed, choose an application rate lower in the rate range.** For other plant species, SePRO recommends contacting a SePRO Aquatic Specialist in determining when to choose application rates lower in the rate range to meet specific plant management goals. Use the higher rate within the rate range where there is a dense weed mass or when treating more difficult to control plant species or in the event of a heavy rainfall event where dilution has occurred. In these cases, a second application or more may be required; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Refer to the section of this label entitled, *Split or Multiple Applications to Whole Lakes or Reservoirs*, for guidelines and maximum rate allowed.

Average Water Depth of Treatment Site (feet)	Pounds of Sonar H4C Per Treated Surface Acre	
	16 ppb	90 ppb
1	1.6	9
2	3.2	18
3	4.8	27

4	6.4	36
5	8	45
6	9.6	54
7	11.2	63
8	12.8	72
9	14.4	81
10	16	90
11	17.6	99
12	19.2	108
13	20.8	117
14	22.4	126
15	24	135
16	25.6	144
17	27.2	153
18	28.8	162
19	30.4	171
20	32	180

Split or Multiple Applications to Whole Lakes or Reservoirs

To meet certain plant management objectives, split or multiple applications may be desired in making whole lake treatments. Split or multiple application programs are desirable when the objective is to use the minimum effective dose and to maintain this lower dose for the sufficient time to ensure efficacy and enhance selectivity. Under these situations, use the lower rates within the rate range. **In controlling Eurasian watermilfoil and curlyleaf pondweed and where greater plant selectivity is desired, choose an application rate lower in the rate range.** For other plant species, SePRO recommends contacting a SePRO Aquatic Specialist in determining when to choose application rates lower in the rate range to meet specific plant management goals. For split or repeated applications, the sum of all applications must not exceed 150 ppb per annual growth cycle.

NOTE: In treating lakes or reservoirs that contain potable water intakes and when the application requires treating within ¼ mile of a potable water intake, no single application can exceed 20 ppb. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

B. Partial Lake or Reservoir Treatments

Where dilution of this product with untreated water is anticipated, such as in partial lake or reservoir treatments, split or multiple applications may be used to extend the contact time to the target plants. The application rate and use frequency of this product in a partial lake is highly dependent upon the treatment area. An application rate at the higher end of the specified rate range may be required and frequency of applications will vary depending upon the potential of untreated water diluting the Sonar H4C concentration in the treatment area. Use a rate at the higher end of the rate range where greater dilution with untreated water is anticipated.

Application Sites Greater Than ¼ Mile from a Functioning Potable Water Intake

For single applications, apply this product at rates not to exceed 150 ppb, and in a suggested range of 45 to 150 ppb. Split or multiple applications may be made; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Split applications should be conducted to maintain a sufficient concentration in the target area for a period of 45 days or longer. The use of a FastEST is recommended to maintain the desired concentration in the target area over time.

Application Sites within ¼ Mile of a Functioning Potable Water Intake

In treatment areas that are within ¼ mile of a potable water intake, no single application can exceed 20 ppb. When utilizing split or repeated applications of this product for sites which contain a potable water intake, a FastEST is required to determine the actual concentration in the water. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

Application Rate Calculation — Ponds, Lakes and Reservoirs

The amount of product to be applied to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

$$\text{Pounds of Sonar H4C required per treated acre} = \text{Average water depth of treatment site} \times \text{Desired ppb concentration of active ingredient} \times 0.1$$

For example, the pounds per acre of product required to provide a concentration of 25 ppb of active ingredient in water with an average depth of 5 feet is calculated as follows:

$$5 \times 25 \times 0.1 = 12.5 \text{ pounds per treated surface acre.}$$

NOTE: Calculated rates may not exceed the maximum allowable rate in pounds per treated surface acre for the water depth listed in the application rate table for the site to be treated.

C. Application to Drainage Canals, Irrigation Canals and Rivers

Static Canals:

In static drainage and irrigation canals, apply this product at typical use rates of 37 to 74 pounds per surface acre.

Moving Water Canals and Rivers:

Sonar H4C performance will be enhanced by restricting or reducing water flow. In slow moving bodies of water use an application technique that maintains a concentration of 10 to 40 ppb in the applied area for typically a minimum of 45 days. Sonar H4C can be applied by split or multiple broadcast applications or by metering in the product to provide a uniform concentration of the herbicide based upon the flow pattern. The use of a FastEST is recommended to maintain the desired concentration in the target area over time.

Static or Moving Water Canals or Rivers Containing a Functioning Potable Water Intake

In treating a static or moving water canal or river which contains a functioning potable water intake, applications of this product greater than 20 ppb must be made more than ¼ mile from a functioning potable water intake. Applications less than 20 ppb may be applied within ¼ mile from a functioning potable water intake; however, if applications of Sonar H4C are made within ¼ mile from a functioning water intake, a FastEST must be utilized to demonstrate that concentrations do not exceed 150 ppb at the potable water intake.

Application Rate Calculation — Drainage Canals, Irrigation Canals and Rivers

The amount of this product to be applied through a metering system to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

1. Average flow rate (feet per second) x average width (ft.) x average depth (ft.) x 0.9 = CFS (cubic feet per second)
2. CFS x 1.98 = acre feet per day (water movement)
3. Acre feet per day x desired ppb x 0.1 = pounds Sonar H4C required per day.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

Container Handling

Non-refillable Container. DO NOT reuse or refill this container. Completely empty container into application equipment, then offer for recycling if available or dispose of empty container in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Warranty Disclaimer: SePRO Corporation warrants that this product conforms to the chemical description on the product label. Testing and research have also determined that this product is reasonably fit for the uses described on the product label. To the extent consistent with applicable law, SePRO Corporation makes no other express or implied warranty of fitness or merchantability nor any other express or implied warranty and any such warranties are expressly disclaimed.

Misuse: Federal law prohibits the use of this product in a manner inconsistent with its label directions. To the extent consistent with applicable law, the buyer assumes responsibility for any adverse consequences if this product is not used according to its label directions. In no case shall SePRO Corporation be liable for any losses or damages resulting from the use, handling or application of this product in a manner inconsistent with its label.

For additional important labeling information regarding SePRO Corporation's Terms and Conditions of Use, Inherent Risks of Use and Limitation of Remedies, please visit <http://seprolabels.com/terms> or scan the image below.



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FPL20151006

[VERSION A: Base label for all non-STP containers]



Sonar® H4C

Aquatic Herbicide

Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone..... 2.7%

Other Ingredients..... 97.3%

TOTAL..... 100.0%

Contains 0.027 lbs. active ingredient per pound.

Keep Out of Reach of Children

CAUTION / PRECAUCIÓN

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wear long sleeved shirt, long pants, shoes and socks.

FIRST AID

If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center for treatment advice.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call **INFOTRAC** at **1-800-535-5053**.

ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Trees and shrubs growing in water treated with Sonar H4C may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

Container Handling

Non-refillable Container. DO NOT reuse or refill this container. Completely empty container into application equipment, then offer for recycling if available or dispose of empty container in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Refer to inside of label booklet for additional precautionary statements and directions for use including first aid and storage and disposal.

Notice: Read the entire label before using. Use only according to label directions. Before buying or using this product, read Warranty Disclaimer and Misuse statements inside label booklet. If terms are unacceptable, return at once unopened.

EPA Reg. No. 67690-61
FPL20151006

EPA Est. No. _____
[SPC -] _____

SePRO Corporation • 11550 N. Meridian Street, Suite 600 • Carmel, IN 46032, U.S.A.

Net weight _____ (Non-refillable)

[VERSION B: Front Panel, STP ONLY containers]

Sonar H4C

Aquatic Herbicide

[ABN: SePRO Total Pond – Prevent™]

Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone 2.7%

Other Ingredients 97.3%

TOTAL 100.0%

Contains 0.027 lbs. active ingredient per pound.

KEEP OUT OF REACH OF CHILDREN CAUTION

See label booklet for additional precautionary statements and directions for use.

{optional text:

*Contains Sonar® for early-season floating and submersed weed removal and prevention**Contains Sonar® for selective control of floating and submersed aquatic weeds**Controls Duckweed, Pondweed, Milfoil, Hydrilla, PLUS many more! }*

Controls many submersed and floating aquatic weeds

- Apply early-season to prevent weeds from ever becoming a problem
- Apply in-season to remove nuisance aquatic weeds
- Systemic, complete kill including the roots
- Easy-to-apply granular formulation

Spring Summer Fall Winter
Recommended Application Timing

EPA Reg. No. 67690-61

[FG no.] _____

[Part no.] _____

FPL20151006

Net weight _____ (Non-refillable)

[VERSION B: Label Booklet Cover, STP ONLY containers]



Sonar H4C

Aquatic Herbicide

[ABN: SePRO Total Pond – Prevent™]

Sonar H4C is a selective systemic aquatic herbicide for management of fresh water aquatic vegetation in waterbodies such as swimming ponds, fishing ponds, livestock tanks, lakes, reservoirs and potable waterbodies.

Quick facts:

Sonar H4C is powered by Sonar®, a leading aquatic herbicide for over 20 years. This easy to use formulation provides broad spectrum weed control.

- Stops photosynthesis in treated weeds
- Safe for watering livestock
- No fishing or swimming restrictions following application.

When and where to use:

Apply early-season to prevent weeds from ever becoming a problem. Can also be used in-season to control established weeds.

- Controls most submersed weeds
- Controls most floating leaf weeds
- Results within 30 – 45 days with early application*
- Season long control

* Under typical conditions when following the Early-season Program. See label for details.

How to use:

Apply product directly to water evenly around the perimeter of the waterbody or directly over areas where weeds typically grow.

- This container treats up to 8,700 square feet, 4 feet deep

Refer to label booklet for additional precautionary statements and directions for use.

Notice: Read the entire label before using. Use only according to label directions. Before buying or using this product, read Warranty Disclaimer and Misuse statements inside label booklet. If terms are unacceptable, return at once unopened.

Copyright ©____ SePRO Corporation
 Manufactured by: SePRO Corporation
 11550 N. Meridian Street,
 Suite 600; Carmel, IN 46032
 Customer service: **1-844-766-2727**

EPA Reg. No. 67690-61

EPA Est. No. _____

[Part No.] _____

FPL20151006

Formulated and Packaged in U.S.A.

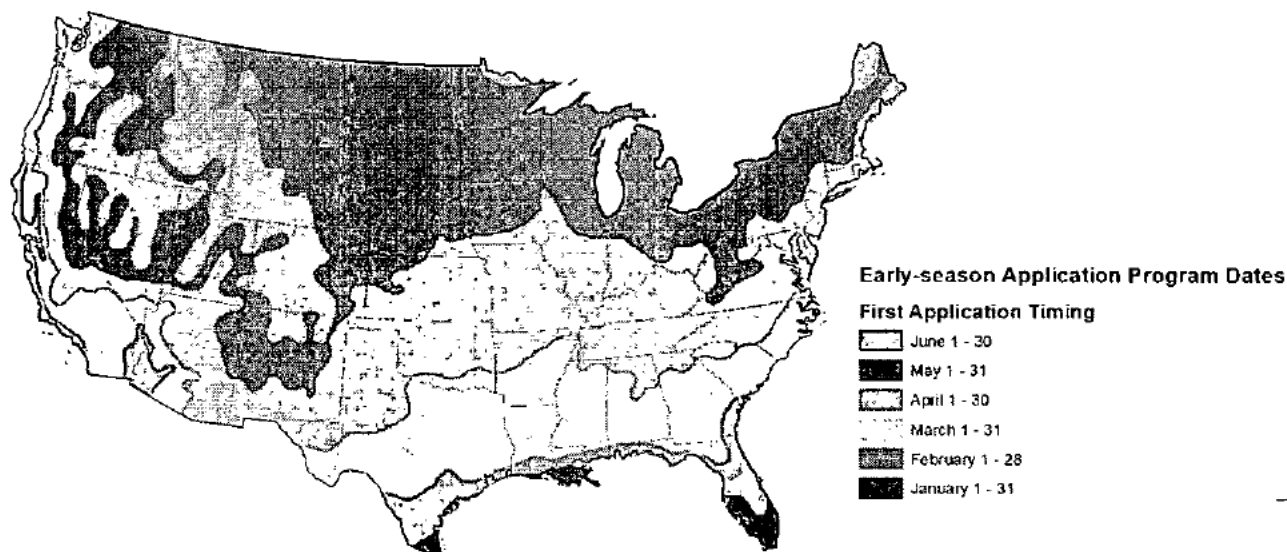
SePRO Total Pond – Prevent is a trademark of SePRO Corporation
Sonar is a registered trademark of SePRO Corporation

[VERSION B: Label booklet text, **STP ONLY** containers]**STOP! PLEASE READ ENTIRE LABEL BEFORE USE.****DIRECTIONS FOR USE**

It is a violation for Federal Law to use this product in a manner inconsistent with its labeling.

**When to apply**

Sonar H4C can be applied in an **Early-season Program** before many nuisance aquatic plants begin to actively grow – or – in an **In-season Program** to control many established nuisance aquatic plants. Regardless of your situation, for best results apply in the spring or early summer.



Early-season Program: Before weeds are present, or when they are still very small, split the treatment into two (2) applications to provide optimal results and extended herbicide exposure. Find the date range of your first application from your region on the map. Depending upon the target weed species and waterbody dimensions, use Table 1 or 2 to determine the total amount of product to use for the season. Apply $\frac{1}{2}$ that amount during the range of dates indicated (or earlier if submersed plant growth is evident). Wait one month and apply the remaining $\frac{1}{2}$ to complete the program.

In-season Program: If your expected treatment start date is later than the range of dates indicated for your region on the map, apply the full dosage in a single application. Depending upon the target weed species and waterbody dimensions, use Table 1 or 2 to determine the appropriate rate.

Example: A $\frac{1}{4}$ -acre pond with an average depth of 4 feet, targeting control of duckweed and pondweed (Table 1). A total of 3.8 lbs. of product is needed for the season. For the Early-season Program, apply this amount of product in two applications of 1.9 lbs. each, one month apart. For the In-season Program, apply 7.5 lbs. of product in one application.

Where and how to apply

This product is formulated for direct application to the water. Simply apply the appropriate amount of product evenly in the water, around the perimeter of the waterbody or over the targeted treatment area using a gloved hand, scoop, or other granule application equipment to dispense the pellets into the water. For best results, target coverage in areas where aquatic weeds typically occur or are present.

Susceptible Aquatic Weeds for Use Rates in Table 1.

azolla
 bladderwort
 common elodea
 duckweed (rate for **Early-season Program**)
 egeria, Brazilian elodea
 hydrilla
 naiads
 pondweed (except Illinois pondweed)
 tapegrass, American eelgrass
 watermilfoils (except parrot feather)

Table 1.
Application Rate (lbs.)

Average Pond Depth (ft.)	Pond Size (ac)		
	1/8	1/4	1/2
1	0.5	0.9	1.9
2	0.9	1.9	3.8
3	1.4	2.8	5.6
4	1.9	3.8	7.5
5	2.3	4.7	9.4
6	2.8	5.6	11.3
7	3.3	6.6	13.1
8	3.8	7.5	15.0

Susceptible Aquatic Weeds for Use Rates in Table 2.

common coontail
 duckweed (rate for **In-season Program**)
 fanwort, cabomba
 Illinois pondweed
 American lotus
 parrot feather
 spatterdock
 spikerush
 waterlily
 watershield

Table 2.
Application Rate (lbs.)

Average Pond Depth (ft.)	Pond Size (ac)		
	1/8	1/4	1/2
1	0.9	1.9	3.8
2	1.9	3.8	7.5
3	2.8	5.6	11.3
4	3.8	7.5	15.0
5	4.7	9.4	18.8
6	5.6	11.3	22.5
7	6.6	13.1	26.3
8	7.5	15.0	30.0

The maximum application rate or sum of all application rates per annual growing cycle is 36 lbs. per acre, 4 feet deep in ponds less than 10 acres in size.

How Sonar H4C works

This product controls unwanted aquatic vegetation by restricting the plant's ability to make food, causing it to die. This involves inhibiting development of yellow pigments that protect a plant's chlorophyll from decomposition by sunlight. As the plant's chlorophyll decreases, so does its capacity to produce food.

What to expect

This product is selective and controls target weeds slowly. It lets desirable vegetation re-establish itself, and does not result in oxygen depletion or fish kill. Target aquatic weeds remain under control for a full season and often longer. It takes 30 to 60 days for this product to control established weeds. You can expect full results within 90 days. Visual symptoms of bleaching gradually appear on the terminal buds, or growing points, of the plant. Some plants are less susceptible and may require treatment at the maximum label rate.

USE RESTRICTIONS

Obtain Required Permits: Consult with appropriate state or local water authorities before applying this product. Permits may be required by state or local public agencies.

Drinking, Fishing and Swimming: Drinking, fishing and swimming are allowed following application. Note below application restrictions around potable water intakes.

Livestock/Pet Consumption: Drinking by livestock and pets is allowed following application.

Potable Water Intakes and Irrigation: Before using this product to treat any waters where potable (human consumption) water intakes are present, and/or before using water treated with this product for irrigation, users must contact a SePRO Total Pond Advisor TOLL FREE at **1-844-766-2727** or email **service@seprototal.com** to determine the appropriate use rates and application methods.

ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Trees and shrubs growing in treated water may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas. Do not apply more than 36 lbs. of this product per one acre foot (one surface acre, one foot deep) per annual growing cycle in any waters less than 10 acres in size.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of spill, contain material and dispose of as waste.

Container Handling:

Non-refillable Container: Do not reuse or refill this container. **If empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

Warranty Disclaimer: SePRO Corporation warrants that this product conforms to the chemical description on the product label. Testing and research have also determined that this product is reasonably fit for the uses described on the product label. To the extent consistent with applicable law, SePRO Corporation makes no other express or implied warranty of fitness or merchantability nor any other express or implied warranty and any such warranties are expressly disclaimed.

Misuse: Federal law prohibits the use of this product in a manner inconsistent with its label directions. To the extent consistent with applicable law, the buyer assumes responsibility for any adverse consequences if this product is not used according to its label directions. In no case shall SePRO Corporation be liable for any losses or damages resulting from the use, handling or application of this product in a manner inconsistent with its label.

For additional important labeling information regarding SePRO Corporation's Terms and Conditions of Use, Inherent Risks of Use and Limitation of Remedies, please visit <http://seprolabels.com/terms> or scan the image below.



Need help? A SePRO Total Pond Advisor can remotely and accurately measure the size of your pond and discuss a personalized strategy to keep your pond clear of unwanted weeds and algae. Call us TOLL FREE at 1-844-766-2727 or email service@seprototal.com

Copyright © ____ SePRO Corporation
SePRO Total Pond - Prevent is a trademark of SePRO Corporation.

[VERSION B: Base label for STP ONLY containers]

Sonar H4C

Aquatic Herbicide

[ABN: SePRO Total Pond – Prevent™]

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

KEEP OUT OF REACH OF CHILDREN CAUTION

Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wear long sleeved shirt, long pants, shoes and socks and waterproof gloves.

Refer to the inside of the label booklet for additional precautionary statements and directions for use.

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053.	

STORAGE AND DISPOSAL
Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, contain material and dispose as waste. Container Handling Non-refillable Container. DO NOT reuse or refill this container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

SePRO Total Pond - Prevent is a trademark of SePRO Corporation.

SePRO Corporation 11550 North Meridian Street, Suite 600, Carmel, IN 46032

EPA Reg. No. 67690-61

[Part No.] _____

EPA Est. No. _____

FPL20151006



SePRO Corporation • 11550 North Meridian Street • Suite 600 • Carmel, Indiana 46032-4565
Phone: (317) 580-8282 Fax: (317) 428-4577

August 27, 2015

Tony Kish, Product Manager 22
Document Processing Desk
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive.
Arlington, VA 22202-4501

PM 21

**RE: SePRO Total Pond - Rescue (EPA Reg. No. 67690-60)
Submission of Final Printed Label**

Dear Mr. Kish:

SePRO Corporation (SePRO, EPA Company Number 67690) is submitting the Final Printed Label for the product SePRO Total Pond - Rescue. This submission is in response to EPA approved registration, stamped February 6, 2015 (Decision No. 496501).

Please find enclosed the following information to support this request:

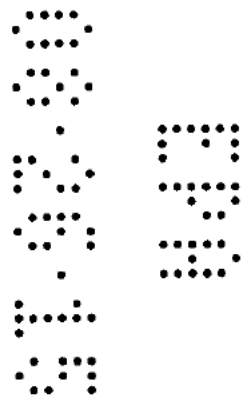
- Cover letter (this document);
- Application for Pesticide Registration, EPA Form 8570-1; and
- One copy of the Final Printed Label for SePRO Total Pond - Rescue.

If you have any questions, please do not hesitate to contact me at (317) 580-8286 or at LaurentM@sepro.com.

Best Regards,

Laurent Mézin
Regulatory Affairs Manager

Enclosures



EPA
 United States
Environmental Protection Agency
 Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 67690-61	2. EPA Product Manager Tony Kish	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company / Product (Name) SePRO Corporation / SePRO Total Pond - Rescue	PM# 22	
5. Name and Address of Applicant (Include ZIP Code) SePRO CORPORATION 11550 N. Meridian St., Suite 600 Carmel, IN 46032 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(I), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated 02/06/15
<input type="checkbox"/> Resubmission in response to Agency letter dated XX-XX-XX	<input type="checkbox"/> "Me Too" Application
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

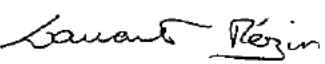
Explanation: Use additional page(s) if necessary. (For section I and Section II.)

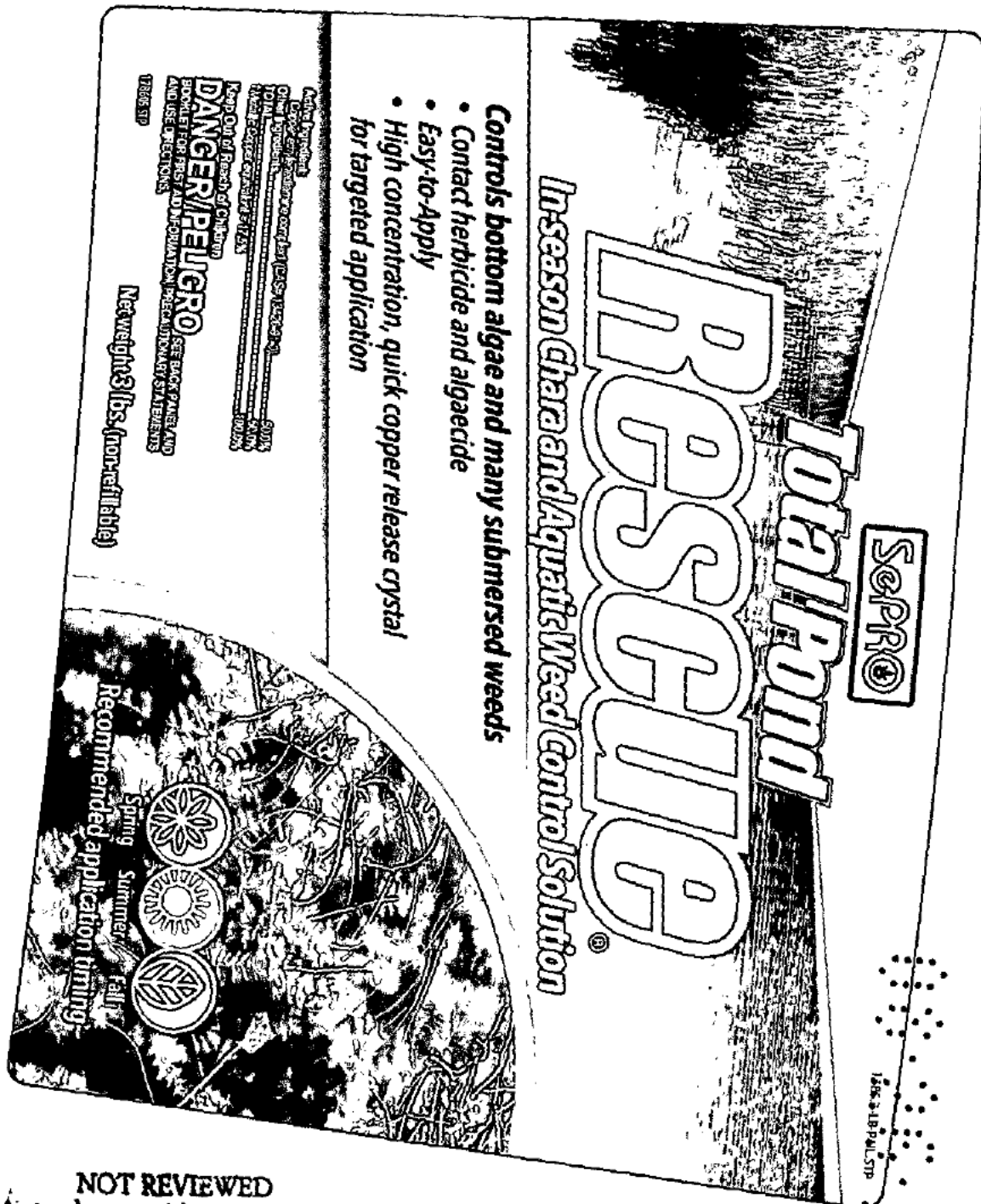
Submission of Final Printed Label for SePRO Total Pond - Rescue (67690-60) in response to agency letter dated February 6, 2015.

Section III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) Plastic Bag		
*Certification must be submitted		If "Yes" Unit Packaging wgt. No. per Container	If "Yes" Package wgt. No. per Container		
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 3 lbs		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled					

Section IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Laurent C. Mézin	Title Regulatory Affairs Manager	Telephone No. (Include Area Code) (317) 580-8286
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature BY: 	3. Title Regulatory Affairs Manager	
4. Typed Name: Laurent C. Mézin	5. Date: August 27, 2015	



NOT REVIEWED
 In Accordance with PR Notice 82-2
 Based on Draft Labeling Dated

02/06/2015

SePRO

Total Pond

Spring Summer Fall

SePRO Total Pond - Rescue controls undesirable aquatic vegetation and bottom algae in ponds, lakes and reservoirs.

Refer to the inside of this label booklet for additional precautionary information, First Aid and Directions for Use including Storage and Disposal.

© Copyright 2015
SePRO Corporation
Manufactured by SePRO Corporation, 11550 North Herndon Street, Suite 600, Carroll, IN 46032
Customer Service: 1-844-766-2727
EPA Reg. No. 67930-NC-002
EPA Est. No. 67930-NC-002
FPL20150112
SePRO Total Pond - Rescue is a registered trademark of SePRO Corporation.
Printed in the USA.

Barcode: 11055011624

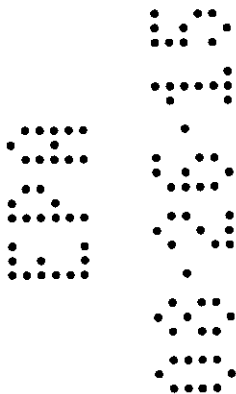
Formulated and Packaged in USA 178504 STP

Rescue®
In-Season Chara and Aquatic Weed Control Solution

Quick Facts:
The high concentration, quick copper release formulation optimizes product exposure in the pond and bottom algae zone.
No string, swimming or ingestion restrictions or ingestion restrictions.
Controlled burn-down containing 17.5% diquat ester.
Aquadex partner of a dock.
When and Where to use: Best for strategic spot treatments with weeds and algae are actively growing.
Keeps swimming borders clear of nuisance weeds and algae.
No string, swimming or ingestion restrictions or ingestion restrictions.
Controlled burn-down containing 17.5% diquat ester.
Aquadex partner of a dock.
When and Where to use: Best for strategic spot treatments with weeds and algae are actively growing.

How to Use:
Use granules stir the water thoroughly.
Apply bottom dyes and submerged weeds (see instructions for detailed use).
Keeps swimming borders clear of nuisance weeds and algae.
No string, swimming or ingestion restrictions or ingestion restrictions.
Controlled burn-down containing 17.5% diquat ester.
Aquadex partner of a dock.
When and Where to use: Best for strategic spot treatments with weeds and algae are actively growing.

Depositing on species:
Plants are generally controlled in 10-20 days.



STOP! Please read entire label before use.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Use only according to label directions.

How SePRO Total Pond - Rescue Works:

SePRO Total Pond - Rescue is a concentrated chelated copper formulation that is effective as a result of its ability to act at multiple sites of action in the plant. This product works by shutting down photosynthesis and disrupting cell integrity. The high concentration, quick copper release granular formulation optimizes product exposure in the area where weeds and bottom-dwelling algae are growing.

When to apply:

SePRO Total Pond - Rescue should be applied while weeds and algae are actively growing.

Where and how to apply:

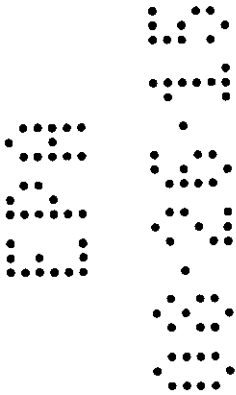
This product is formulated for direct application to the water. Simply apply the appropriate amount of product evenly in the water, around the perimeter of the waterbody or over the targeted treatment area using a gloved hand, scoop or other granule application equipment to cast the pellets into the water. For best results, target coverage in areas where aquatic weeds and bottom-dwelling algae are actively growing.

Water treated with this product may be used for fishing, swimming, and irrigation following application.

Do not treat more than 1/3 of the waterbody during a single application to avoid the potential for depletion of oxygen due to decaying vegetation. Wait at least 14 days before continuing treatment of the remainder of the waterbody.

Species controlled:

This product controls many submersed aquatic plant and bottom-dwelling algae species including hydrilla, Brazilian elodea (Egeria), naiad, coontail, elodea, horned pondweed, sago pondweed, floating-leaved pondweeds, watermilfoil and American eelgrass, (tapegrass), Charophytes (*Chara* spp., *Nitella* spp., and *Nitellopsis* spp.), and other submersed weed and algae that are sensitive to copper.



STOP! Please read entire label before use.

TABLE 1. RECOMMENDED APPLICATION RATE (LBS.)**

Average Pond Depth (ft)	Treated area (surface acre*)		
	1/8	1/4	1/2
2	2.5	5.0	10.0
3	3.8	7.5	15.0
4	5.0	10.0	20.0
5	6.3	12.5	25.0
6	7.5	15.0	30.0
7	8.8	17.5	35.0
8	10.0	20.0	40.0

*1 surface acre = 43,650 square feet

** Do not treat more than 1/3 waterbody during a single application

TIPS FOR BEST RESULTS

- Ensure complete, uniform coverage of areas where target weeds or algae are growing.
- Apply on a calm day.
- This product requires a minimum 3 hours of contact time to achieve optimum results.
- Prevent disturbing the treated areas for 24 hours or as long as possible to maximize contact time.

PRECAUTIONARY STATEMENTS

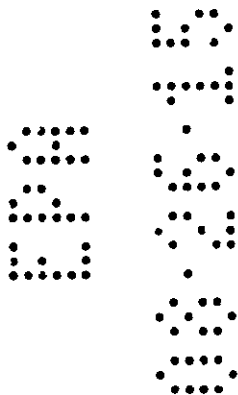
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

KEEP OUT OF THE REACH OF CHILDREN

DANGER / PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Corrosive. Causes irreversible eye damage. May be fatal if swallowed. Harmful if inhaled. Do not get in eyes or on clothing. Wear appropriate protective eyewear (goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Avoid breathing dust. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.



STOP! Please read entire label before use.

FIRST AID

If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything to an unconscious person.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

You must wear the following:

- Safety glasses; Long-sleeve shirt and long pants; Shoes plus socks; and Waterproof gloves. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should: Wash the outside of gloves before removing. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

SePRO® Total Pond Rescue®

Precautionary Statements
Hazards to Humans and Domestic Animals

**KEEP OUT OF THE
REACH OF CHILDREN**

DANGER / PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

CORROSIVE. Causes irreversible eye damage. May be fatal if swallowed. Harmful if inhaled. Do not get in eyes or on clothing. Wear appropriate protective eyewear (goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Avoid breathing dust. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

You must wear the following:
• Safety glasses; Long-sleeve shirt and long pants;
• Shoes plus socks; and Waterproof gloves. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should: Wash the outside of gloves before removing. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

Refer to inside of label booklet for additional precautionary information and directions for use including storage and disposal.



Spring Summer Fall

FIRST AID

If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything to an unconscious person.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053.



SePRO® Total Pond Rescue® AQUATIC HERBICIDE

In-Season Chars and Aquatic Weed Control Solution

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Waters treated with this product may be hazardous to aquatic organisms. Treatment of aquatic weeds and algae can result in oxygen loss from decomposition of dead algae and weeds. This oxygen loss can cause fish and invertebrate suffocation. To minimize this hazard, do not treat more than 1/3 of the water body to avoid depletion of oxygen due to decaying vegetation. Wait at least 14 days between treatments. Begin treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas. Consult with the State or local agency with primary responsibility for regulating pesticides before applying to public waters, to determine if a permit is required.

Certain water conditions including low pH (<6.5), low dissolved organic carbon (DOC) levels (3.0 mg/L or lower), and "soft" waters (i.e. alkalinity less than 50 mg/L), increase the potential acute toxicity to non-target aquatic organisms. Do not use in waters containing trout or other fish species that are highly sensitive to copper if the alkalinity is less than 50 ppm. Fish toxicity generally decreases when the hardness of water increases. This product must not be used in ornamental ponds containing Koi.

For applications in waters destined for use as drinking water, those waters must receive additional and separate potable water treatment. Do not apply more than 1.0 ppm as metallic copper in any waters.

EPA Reg. No. 67690-60
FPL20150112

EPA Est. No. 067690-NC-002
178604.STP

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of spill, contain material and dispose of as waste.

Container Handling:

Nonrefillable Container: Do not reuse or refill this container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

Notice: Research and testing have determined that the "directions for use" are appropriate for the proper use of this product under expected conditions. To the extent consistent with applicable law, the buyer assumes responsibility for lack of performance or safety if not used according to the directions. To the extent consistent with applicable law, Manufacturer makes no other express or implied warranty of fitness or merchantability nor any other express or implied warranty. In no case shall Manufacturer be liable for consequential, special or indirect damages resulting from the use, handling or application of this product.

Need help? A SePRO Pond Advisor can remotely and accurately measure the size of your pond and discuss a personalized strategy to keep your pond clear of unwanted weeds and algae. Call us TOLL FREE at 1-844-766-2727 or email service@seprototal.com

Made in the U.S.A.

Copyright ©2015 SePRO Corporation
SePRO Total Pond - Rescue is a registered trademark of SePRO Corporation.
Printed in the U.S.A.
Manufactured by
SePRO Corporation 11550 North Meridian Street,
Suite 600, Carmel, IN 46032, U.S.A.

Net weight 3 lbs. (Non-refillable)

PROCESSING REQUEST

Reg #67690-61

Decision #496255

Description: Label Amendment

Material Available Electronically (see PPLS):

☒ Electronic Label/Letter Dated ~~10/8/14~~ 1/7/15

☐ Other:

Material Sent (see jacket):

☐ Stamped Label/Letter Dated

☐ Notification Dated

☐ New CSF(s) Dated

☐ Other:

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

Reviewer: Sarah Meadows

Division: Registration Division

Phone: 347-0505

Date: 1/8/15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

January 7, 2015

Laurent C. Mézin, PhD
Manager, Regulatory Affairs
SePRO Corporation
11550 North Meridian Street Suite 600
Carmel, Indiana 46032-4565

Subject: Label Amendment – Addition of Alternate Brand Name and Homeowner Use
Sublabel
Product Name: Sonar H4C
Alternate Brand Name: SePRO Total Pond - Prevent
EPA Registration Number: 67690-61
Application Date: October 8, 2014
Decision Number: 496255

Dear Dr. Mézin:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

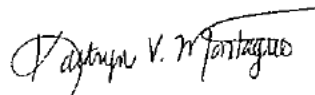
A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Sarah Meadows by phone at 703-347-0505, or via email at meadows.sarah@epa.gov.

Sincerely,

A handwritten signature in cursive script, reading "Kathryn V. Montague".

Kathryn Montague, Product Manager 23
Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

Sonar® H4C

AQUATIC HERBICIDE

EPA Reg. No. 67690-61

FPL20141006 Clean

ABN: SePRO Total Pond – Prevent

ACCEPTED**01/07/2015**

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 67690-61

Version A - Professional uses sub-label	pp. 1-15
Version B – Retail Consumer uses sub-label	pp. 16-25

Registration Notes: Based on EPA-Stamped label with FPL20140804.

Label Notes:**General Label notes:**

Label changes:

1. Updated FPL date
2. Changed 'net content' to 'net weight'
3. Added a retail consumer sub-label; This will be a singular, fixed 3Lbs size (label text reflects 3lbs contents)
4. Adds an alternate brand name, included in the retail sub-label.

[Front of label booklet, ALL containers]

Sonar® H4C

AQUATIC HERBICIDE

AN HERBICIDE FOR MANAGEMENT OF AQUATIC VEGETATION IN FRESH WATER PONDS, LAKES, RESERVOIRS (INCLUDING INLETS AND TRIBUTARIES), POTABLE WATER SOURCES, DRAINAGE CANALS, IRRIGATION CANALS AND RIVERS.

Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone 2.7%

Other Ingredients 97.3%

TOTAL 100.0%

Contains 0.027 lb active ingredient per pound.

Keep Out of Reach of Children

CAUTION / PRECAUCIÓN

Refer to inside of label booklet for additional precautionary information and Directions for Use including First Aid and Storage and Disposal.

NOTICE: Read the entire label before using. Use only according to label directions. Before buying or using this product, read *Terms and Conditions of Use*, *Warranty Disclaimer*, *Inherent Risks of Use* and *Limitation of Remedies* inside label booklet.

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center for treatment advice.
HOTLINE NUMBER	

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call **INFOTRAC** at **1-800-535-5053**.

EPA Reg. No. 67690-61
FPL20141006

EPA Est. No. _____
[SPC -] _____

SePRO Corporation • 11550 N. Meridian Street, Suite 600 • Carmel, IN 46032, U.S.A.

Net weight _____
[Refillable/Nonrefillable container _____]

[Label booklet text, ALL containers]**PRECAUTIONARY STATEMENTS****HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wear long sleeved shirt, long pants, shoes and socks.

KEEP OUT OF REACH OF CHILDREN
CAUTION/PRECAUCIÓN

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or Clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053 .	

USER SAFETY RECOMMENDATIONS

- wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Trees and shrubs growing in water treated with Sonar H4C may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read all Directions Carefully Before Applying Sonar H4C.

PRODUCT INFORMATION

Sonar H4C herbicide is a selective systemic aquatic herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs (including inlets and tributaries), drainage canals, irrigation canals, and rivers. Sonar H4C is a pelleted formulation containing 2.7% fluridone designed to provide enhanced numbers of pellets (greater coverage) in treated areas versus other Sonar pellet formulations at equivalent herbicide dosing. This higher density of pellets has the potential to improve herbicide contact with target vegetation in higher exchange treatment scenarios such as spot or small-partial application designs. Sonar H4C is absorbed from water by plant shoots and from hydrosol by the roots of aquatic vascular plants. It is important to maintain Sonar H4C in contact with the target plants for as long as possible. Rapid water movement or any condition which results in rapid dilution of Sonar H4C in treated water will reduce its effectiveness. In susceptible plants, Sonar H4C inhibits the formation of carotene. In the absence of carotene, chlorophyll is rapidly degraded by sunlight.

Herbicidal symptoms of Sonar H4C appear in seven to ten days and appear as white (chlorotic) or pink growing points. Under optimum conditions, 30 to 90 days are required before the desired level of aquatic weed management is achieved with Sonar H4C. Species susceptibility to Sonar H4C may vary depending on time of year, stage of growth and water movement. For best results, apply Sonar H4C prior to initiation of weed growth or when weeds begin active growth. Application to mature target plants may require an application rate at the higher end of the specified rate range and may take longer to control.

Sonar H4C is not corrosive to application equipment.

The label provides recommendations on the use of a chemical analysis for the active ingredient. SePRO Corporation recommends the use of a High-Performance Liquid Chromatography (HPLC) for the determination of the active ingredient concentration in the water. Contact SePRO Corporation to incorporate this test, known as a FastEST, into your treatment program. Other proven chemical analyses for the active ingredient may also be used. The FastEST is referenced in this label as the preferred method for the rapid determination of the concentration of the active ingredient in the water.

Application rates are provided in pounds of Sonar H4C to achieve a desired concentration of the active ingredient in parts per billion (ppb). **The maximum application rate or sum of all application rates is 90 ppb in ponds (< 10 Acres) and 150 ppb in lakes and reservoirs per annual growth cycle.** This maximum concentration is the amount of product calculated as the target application rate, NOT determined by testing the concentrations of the active ingredient in the treated water.

Use Restrictions

- **Obtain Required Permits:** Consult with appropriate state or local water authorities before applying this product. Permits may be required by state or local public agencies.

- **New York State:** Application of Sonar H4C is not permitted in waters less than two (2) feet deep, except as permitted under FIFRA Section 24(c), Special Local Need registration.
- **Hydroponic Farming:** Do not use Sonar H4C treated water for hydroponic farming unless a FastEST has been run and confirmed that concentrations are less than 1 ppb.
- **Greenhouse and Nursery Plants:** Consult with SePRO Corporation for site-specific recommendations prior to any use of Sonar H4C treated water for irrigating greenhouse or nursery plants. Without site-specific guidance from SePRO, do not use Sonar H4C treated water for irrigating greenhouse or nursery plants unless a FastEST has been run and confirmed that concentrations are less than 1 ppb.

Water Use Restrictions Following Applications With Sonar H4C (Days)

Application Rate	Drinking†	Fishing	Swimming	Livestock/Pet Consumption	Irrigation††
Maximum Rate (150 ppb) or less	0	0	0	0	See irrigation instructions below

† Note below, under *Potable Water Intakes*, the information for application of Sonar H4C within ¼ miles (1,320) feet of a functioning potable water intake.

†† Note below, under *Irrigation*, specific time frames or fluridone concentrations that provide the widest safety margin for irrigating with fluridone treated water.

- **Potable Water Intakes:** Concentrations of the active ingredient fluridone up to 150 ppb are allowed in potable water sources; however, in lakes and reservoirs or other sources of potable water, do not apply Sonar H4C at application rates greater than 20 ppb within one-fourth (¼) mile (1,320 feet) of any functioning potable water intake. At application rates of 8-20 ppb, Sonar H4C may be applied where functioning potable water intakes are present. **NOTE: Existing potable water intakes which are no longer in use, such as those replaced by connections to potable water wells or a municipal water system, are not considered to be functioning potable water intakes.**
- **Irrigation:** For tobacco, tomatoes, peppers or other plants within the Solanaceae Family and newly seeded crops or newly seeded grasses such as overseeded golf course greens, do not use Sonar H4C treated water if concentrations are greater than 5 ppb; furthermore, when rotating crops, do not plant members of the Solanaceae family in land that has been previously irrigated with fluridone concentrations in excess of 5 ppb without consultation with a SePRO Aquatic Specialist. It is recommended that a SePRO Aquatic Specialist be consulted prior to commencing irrigation of these sites.

Use Precautions

- **Irrigation:** Irrigation with Sonar H4C treated water may result in injury to the irrigated vegetation. Follow these precautions and inform those who irrigate from areas treated with Sonar H4C of the irrigation time frames or FastEST requirements presented in the table below. These time frames and FastEST recommendations are suggestions which should be followed to reduce the potential for injury to vegetation irrigated with water treated with Sonar H4C. Greater potential for crop injury occurs where Sonar H4C treated water is applied to crops grown on low organic and sandy soils.

Application Site	Days After Application		
	Established Tree Crops	Established Row Crops/ Turf/Plants	Newly Seeded Crops/Seedbeds or Areas to be Planted Including Overseeded Golf Course Greens
Ponds and Static Canals †	7	30	FastEST required
Canals	7	7	FastEST required
Rivers	7	7	FastEST required
Lakes and Reservoirs ††	7	7	FastEST required

† For purposes of Sonar H4C labeling, a pond is defined as a body of water 10 acres or less in size. A lake or reservoir is greater than 10 acres.

†† In lakes and reservoirs where one-half or greater of the body of water is treated, use the pond and static canal irrigation precautions.

Where the use of Sonar H4C treated water is desired for irrigating crops prior to the time frames established above, the use of a FastEST is recommended to measure the concentration in the treated water. Where a FastEST has determined that concentrations are less than 10 parts per billion, there are no irrigation precautions for irrigating established tree crops, established row crops or turf.

PLANT CONTROL INFORMATION

Sonar H4C selectivity is dependent upon dosage, time of year, stage of growth, method of application, and water movement. The following categories, controlled, partially controlled, and not controlled are provided to describe expected efficacy under ideal treatment conditions using higher to maximum label rates. Use of lower rates will increase selectivity of some species listed as controlled or partially controlled. Additional aquatic plants may be controlled, partially controlled, or tolerant to Sonar H4C. It is recommended to consult a SePRO Aquatic Specialist prior to application of Sonar H4C to determine a plant's susceptibility to Sonar H4C.

Vascular Aquatic Plants Controlled by Sonar H4C:¹

Submersed Plants:

bladderwort (*Utricularia* spp.)
 common coontail (*Ceratophyllum demersum*)[†]
 common Elodea (*Elodea canadensis*)[†]
 egeria, Brazilian Elodea (*Egeria densa*)
 fanwort, Cabomba (*Cabomba caroliniana*)
 hydrilla (*Hydrilla verticillata*)
 naiad (*Najas* spp.)[†]
 pondweed (*Potamogeton* spp., except Illinois pondweed)[†]
 watermilfoil (*Myriophyllum* spp. except variable-leaf milfoil)

Floating Plants:

azolla (*Azolla* spp.)
 duckweed (*Lemna*, *Landoltia*, and *Spirodela* spp.)

Shoreline Grasses:

paragrass (*Urochloa mutica*)

¹ Species denoted by a dagger (†) are native plants that are often tolerant to fluridone at lower use rates. Please consult a SePRO Aquatic Specialist for recommended Sonar H4C use rates (not to exceed maximum labeled rates) when selective control of exotic species is desired.

Vascular Aquatic Plants Partially Controlled by Sonar H4C:

Submersed Plants:

Illinois pondweed (*Potamogeton illinoensis*)

limnophila (*Limnophila sessiliflora*)

tapegrass, American eelgrass (*Vallisneria americana*)

watermilfoil--variable-leaf (*Myriophyllum heterophyllum*)

Emerald Plants:

alligatorweed (*Alternanthera philoxeroides*)

American lotus (*Nelumbo lutea*)

cattail (*Typha* spp.)

creeping waterprimrose (*Ludwigia peploides*)

parrotfeather (*Myriophyllum aquaticum*)

smartweed (*Polygonum* spp.)

spatterdock (*Nuphar luteum*)

spikerush (*Eleocharis* spp.)

waterlily (*Nymphaea* spp.)

waterpurslane (*Ludwigia palustris*)

watershield (*Brasenia schreberi*)

Floating Plants:

Salvinia (*Salvinia* spp.)

Shoreline Grasses:

barnyardgrass (*Echinochloa crusgalli*)

giant cutgrass (*Zizaniopsis miliacea*)

reed canarygrass (*Phalaris arundinaceae*)

southern watergrass (*Hydrochloa carolinensis*)

torpedograss (*Panicum repens*)

Vascular Aquatic Plants Not Controlled by Sonar H4C:

Emerald Plants:

American frogbit (*Limnobium spongia*)

arrowhead (*Sagittaria* spp.)

bacopa (*Bacopa* spp.)

big floatingheart, banana lily (*Nymphoides aquatica*)

bulrush (*Scirpus* spp.)

pickerelweed, lanceleaf (*Pontederia* spp.)

rush (*Juncus* spp.)

water pennywort (*Hydrocotyle* spp.)

Floating Plants:

floating waterhyacinth (*Eichhornia crassipes*)
waterlettuce (*Pistia stratiotes*)

Shoreline Grasses:

maiden cane (*Panicum hemitomon*)

NOTE: algae (chara, nitella, and filamentous species) are not controlled by Sonar H4C

APPLICATION DIRECTIONS

The aquatic plants present in the treatment site should be identified prior to application to determine their susceptibility to Sonar H4C. It is important to determine the area (acres) to be treated and the average depth in order to select the proper application rate. Do not exceed the maximum labeled rate for a given treatment site per annual growth cycle.

Application to Ponds

Sonar H4C may be applied to the entire surface area of a pond. For single applications, rates may be selected to provide 45 to 90 ppb to the treated water, although actual concentrations in treated water may be substantially lower at any point in time due to the slow-release formulation of this product. When treating for optimum selective control, lower rates may be applied for sensitive target species. Use the higher rate within the rate range where there is a dense weed mass, when treating more difficult to control species, and for ponds less than 5 acres in size with an average depth less than 4 feet. Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the *Application Rate Calculation—Ponds, Lakes and Reservoirs* section of this label. Split or multiple applications may be used where dilution of treated water is anticipated; however, the sum of all applications should total 45 to 90 ppb and must not exceed a total of 90 ppb per annual growth cycle.

Average Water Depth of Treatment Site (feet)	Pounds of Sonar H4C per Treated Surface Acre	
	45 ppb	90 ppb
1	4.5	9
2	9	18
3	13.5	27
4	18	36
5	22.5	45
6	27	54
7	31.5	63
8	36	72
9	40.5	81
10	45	90

Application to Lakes and Reservoirs

The following treatments may be used for treating both whole lakes or reservoirs and partial areas of lakes or reservoirs (bays, etc.). For best results in treating partial lakes and

reservoirs, Sonar H4C treatment areas should be a minimum of 5 acres in size. Treatment of areas smaller than 5 acres or treatment of narrow strips such as boat lanes or shorelines may not produce satisfactory results due to dilution by untreated water. Rate ranges are provided as a guide to include a wide range of environmental factors, such as target species, plant susceptibility, selectivity and other aquatic plant management objectives. Application rates and methods should be selected to meet the specific lake/reservoir aquatic plant management goals.

A. Whole Lake or Reservoir Treatments (Limited or No Water Discharge)

Single Application to Whole Lakes or Reservoirs

Where single applications to whole lakes or reservoirs are desired, apply Sonar H4C at an application rate not to exceed 90 ppb, and in a suggested range of 16 to 90 ppb.

Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the *Application Rate Calculation—Ponds, Lakes and Reservoirs* section of this label. Choose an application rate not to exceed 90 ppb to meet the aquatic plant management objective. **Where greater plant selectivity is desired such as when controlling Eurasian watermilfoil and curlyleaf pondweed, choose an application rate lower in the rate range.** For other plant species, SePRO recommends contacting a SePRO Aquatic Specialist in determining when to choose application rates lower in the rate range to meet specific plant management goals. Use the higher rate within the rate range where there is a dense weed mass or when treating more difficult to control plant species or in the event of a heavy rainfall event where dilution has occurred. In these cases, a second application or more may be required; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Refer to the section of this label entitled, *Split or Multiple Applications to Whole Lakes or Reservoirs*, for guidelines and maximum rate allowed.

Average Water Depth of Treatment Site (feet)	Pounds of Sonar H4C Per Treated Surface Acre	
	16 ppb	90 ppb
1	1.6	9
2	3.2	18
3	4.8	27
4	6.4	36
5	8	45
6	9.6	54
7	11.2	63
8	12.8	72
9	14.4	81
10	16	90
11	17.6	99
12	19.2	108
13	20.8	117
14	22.4	126
15	24	135
16	25.6	144
17	27.2	153

18	28.8	162
19	30.4	171
20	32	180

Split or Multiple Applications to Whole Lakes or Reservoirs

To meet certain plant management objectives, split or multiple applications may be desired in making whole lake treatments. Split or multiple application programs are desirable when the objective is to use the minimum effective dose and to maintain this lower dose for the sufficient time to ensure efficacy and enhance selectivity. Under these situations, use the lower rates within the rate range. **In controlling Eurasian watermilfoil and curlyleaf pondweed and where greater plant selectivity is desired, choose an application rate lower in the rate range.** For other plant species, SePRO recommends contacting a SePRO Aquatic Specialist in determining when to choose application rates lower in the rate range to meet specific plant management goals. For split or repeated applications, the sum of all applications must not exceed 150 ppb per annual growth cycle.

NOTE: In treating lakes or reservoirs that contain potable water intakes and when the application requires treating within ¼ mile of a potable water intake, no single application can exceed 20 ppb. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

B. Partial Lake or Reservoir Treatments

Where dilution of Sonar H4C with untreated water is anticipated, such as in partial lake or reservoir treatments, split or multiple applications may be used to extend the contact time to the target plants. The application rate and use frequency of Sonar H4C in a partial lake is highly dependent upon the treatment area. An application rate at the higher end of the specified rate range may be required and frequency of applications will vary depending upon the potential of untreated water diluting the Sonar H4C concentration in the treatment area. Use a rate at the higher end of the rate range where greater dilution with untreated water is anticipated.

Application Sites Greater Than ¼ Mile from a Functioning Potable Water Intake

For single applications, apply Sonar H4C at application rates not to exceed 150 ppb, and in a suggested range of 45 to 150 ppb. Split or multiple applications may be made; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Split applications should be conducted to maintain a sufficient concentration in the target area for a period of 45 days or longer. The use of a FastEST is recommended to maintain the desired concentration in the target area over time.

Application Sites within ¼ Mile of a Functioning Potable Water Intake

In treatment areas that are within ¼ mile of a potable water intake, no single application can exceed 20 ppb. When utilizing split or repeated applications of Sonar H4C for sites which contain a potable water intake, a FastEST is required to determine the actual concentration in the water. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

Application Rate Calculation — Ponds, Lakes and Reservoirs

The amount of Sonar H4C to be applied to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

$$\text{Pounds of Sonar H4C required per treated acre} = \text{Average water depth of treatment site} \\ \times \text{Desired ppb concentration of active ingredient} \times 0.1$$

For example, the pounds per acre of Sonar H4C required to provide a concentration of 25 ppb of active ingredient in water with an average depth of 5 feet is calculated as follows:

$$5 \times 25 \times 0.1 = 12.5 \text{ pounds per treated surface acre.}$$

NOTE: Calculated rates may not exceed the maximum allowable rate in pounds per treated surface acre for the water depth listed in the application rate table for the site to be treated.

Application to Drainage Canals, Irrigation Canals and Rivers**Static Canals:**

In static drainage and irrigation canals, apply Sonar H4C at typical use rates of 37 to 74 pounds per surface acre.

Moving Water Canals and Rivers:

The performance of Sonar H4C will be enhanced by restricting or reducing water flow. In slow moving bodies of water use an application technique that maintains a concentration of 10 to 40 ppb in the applied area for typically a minimum of 45 days. Sonar H4C can be applied by split or multiple broadcast applications or by metering in the product to provide a uniform concentration of the herbicide based upon the flow pattern. The use of a FastEST is recommended to maintain the desired concentration in the target area over time.

Static or Moving Water Canals or Rivers Containing a Functioning Potable Water Intake

In treating a static or moving water canal or river which contains a functioning potable water intake, applications of Sonar H4C greater than 20 ppb must be made more than ¼ mile from a functioning potable water intake. Applications less than 20 ppb may be applied within ¼ mile from a functioning potable water intake; however, if applications of Sonar H4C are made within ¼ mile from a functioning water intake, a FastEST must be utilized to demonstrate that concentrations do not exceed 150 ppb at the potable water intake.

Application Rate Calculation — Drainage Canals, Irrigation Canals and Rivers

The amount of Sonar H4C to be applied through a metering system to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

1. Average flow rate (feet per second) x average width (ft.) x average depth (ft.) x 0.9 = CFS (cubic feet per second)
2. CFS x 1.98 = acre feet per day (water movement)
3. Acre feet per day x desired ppb x 0.1 = pounds Sonar H4C required per day.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

Container Handling

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity ≤ 50 pounds) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Triple rinse containers too large to shake (capacity >50 pounds) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

TERMS AND CONDITIONS OF USE

If terms of the following *Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies* are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, to the extent consistent with applicable law, use by the

buyer or any other user constitutes acceptance of the terms under *Warranty Disclaimer*, *Inherent Risks of Use*, and *Limitation of Remedies*.

WARRANTY DISCLAIMER

SePRO Corporation warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SEPRO CORPORATION MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of SePRO Corporation or the seller. To the extent consistent with applicable law, all such risks shall be assumed by buyer.

LIMITATION OF REMEDIES

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at SePRO Corporation's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

To the extent consistent with applicable law, SePRO Corporation shall not be liable for losses or damages resulting from handling or use of this product unless SePRO Corporation is promptly notified of such losses or damages in writing. In no case shall SePRO Corporation be liable for consequential or incidental damages or losses.

The terms of the *Warranty Disclaimer*, *Inherent Risks of Use* and this *Limitation of Remedies* cannot be varied by any written or verbal statements or agreements. No employee or sales agent of SePRO Corporation or the seller is authorized to vary or exceed the terms of the *Warranty Disclaimer* or this *Limitation of Remedies* in any manner.

© Copyright ____ SePRO Corporation

[Base label for all containers]



Sonar® H4C

AQUATIC HERBICIDE

Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone 2.7%

Other Ingredients 97.3%

TOTAL 100.0%

Contains 0.027 lbs active ingredient per pound.

Keep Out of Reach of Children

CAUTION / PRECAUCIÓN

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wear long sleeved shirt, long pants, shoes and socks.

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053 .	

ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Trees and shrubs growing in water treated with Sonar H4C may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

Container Handling

Nonrefillable Container. **DO NOT** reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Refillable Container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

See attached booklet for complete container disposal directions including triple rinsing and pressure rinsing instructions.

Refer to the inside of the label booklet for additional precautionary information and directions for use.

NOTICE: Read the entire label before using. Use only according to label directions. **Before buying or using this product, read *Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies* inside label booklet.**

EPA Reg. No. 67690-61
FPL20141006

EPA Est. No. _____
[SPC -] _____

SePRO Corporation • 11550 N. Meridian Street, Suite 600 • Carmel, IN 46032, U.S.A.

Net weight _____
[Refillable/Nonrefillable container _____]

[Front Panel, STP ONLY containers]



SePRO Total Pond – Prevent®

Contains Sonar® for Early-Season Floating and Submersed Weed Removal and Prevention

Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1*H*)-pyridinone 2.7%

Other Ingredients 97.3%

TOTAL 100.0%

Contains 0.027 lb active ingredient per pound.



Keep Out of Reach of Children

CAUTION

Controls many submersed and floating aquatic weeds

- Apply early-season to prevent weeds from ever becoming a problem.
- Apply in-season to remove nuisance aquatic weeds
- Systemic, complete kill including the roots
- Easy-to-apply granular formulation

Duckweed

Pondweed

Milfoil

Hydrilla

PLUS many more

See back panel booklet for additional precautionary statements.

Net weight 3Lbs (Non-refillable)

[Label booklet Cover, STP ONLY containers]



SePRO Total Pond – Prevent®



Contains Sonar® for Early-Season Floating and Submersed Weed Removal and Prevention

SePRO Total Pond - Prevent is a selective systemic aquatic herbicide for management of fresh water aquatic vegetation in ponds such as swimming ponds, fishing ponds, livestock tanks, lakes, reservoirs and potable waterbodies.

Quick facts:

SePRO Total Pond – Prevent is powered by Sonar®, a leading aquatic herbicide for over 20 years. This easy to use formulation provides broad spectrum weed control.

- Stops photosynthesis in treated weeds
- Safe for watering livestock
- No fishing or swimming restrictions following application.

When and where to use:

Apply early-season to prevent weeds from ever becoming a problem. Can also be used in-season to control established weeds.

- Controls most submersed weeds
- Controls most floating leaf weeds
- Results within 30 – 45 days with early application
- Season long control

How to use:

- Apply the product directly to the water evenly around the perimeter of the waterbody or directly over areas where weeds typically grow. See inside label booklet for detailed use instructions.
- Treats up to 8,000 square feet, 4 feet deep

Refer to inside of label booklet for additional precautionary information and Directions for Use including First Aid and Storage and Disposal.

Copyright ©____ SePRO Corporation

Manufactured by

SePRO Corporation; 11550 N. Meridian Street, Suite 600; Carmel, IN 46032

Customer service: 1-844-766-2727

EPA Reg. No. 67690-61

EPA Est. No. _____

[SPC -] _____

FPL20141006

Formulated and Packaged in U.S.A.

SePRO Total Pond – Prevent and Sonar are registered trademarks of SePRO Corporation

[Label booklet text, STP ONLY containers]

STOP! PLEASE READ ENTIRE LABEL BEFORE USE.

DIRECTIONS FOR USE

It is a violation for Federal Law to use this product in a manner inconsistent with its labeling.

HOW SePRO Total Pond – Prevent WORKS

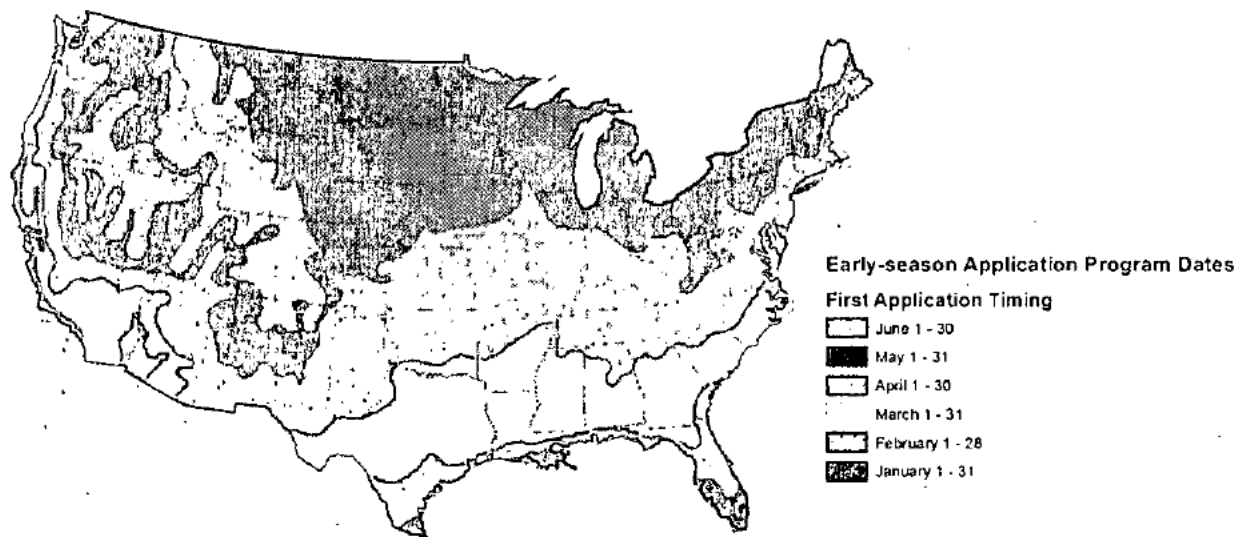
SePRO Total Pond – Prevent controls unwanted aquatic vegetation by restricting the plant's ability to make food, causing them to die. This involves inhibiting development of yellow pigments that protect a plant's chlorophyll from decomposition by sunlight. As the plant's chlorophyll decreases, so does its capacity to produce food. The visual symptom of SePRO Total Pond – Prevent's action is bleaching (turning white) on the terminal bud or growing points of the plant.

What to Expect

SePRO Total Pond – Prevent is selective and controls target weeds slowly. It lets desirable vegetation re-establish itself, and does not result in oxygen depletion or fish kill. Aquatic weeds remain under control for a full season and often longer. It takes 30 to 60 days for this product to control established weeds. You should expect full results within 90 days. You'll be able to observe the visual symptoms of SePRO Total Pond – Prevent's action as chlorosis, or bleaching, gradually appearing on the terminal buds, or growing points, of the plant. Some plants are less susceptible and may require treatment at the maximum label rate.

WHEN TO APPLY

SePRO Total Pond – Prevent can be applied in an **Early-season Program** before many nuisance aquatic plants begin to actively grow – or – in an **In-season Program** to control many established nuisance aquatic plants. Regardless of your situation, for best results apply in the spring or early summer.



Early-season Program: Before weeds are present, or are still very small, split the treatment into 2 applications to provide optimal results and extended herbicide exposure. Find your region on the map. Apply $\frac{1}{2}$ the appropriate rate from Table 1 or 2 based on target weed species during the range of dates indicated (or earlier if submersed plant growth is evident). Wait one month and make another application of $\frac{1}{2}$ the indicated rate to complete the program.

In-season Program - If your expected treatment start date is later than the range of dates indicated for your region on the map, apply the recommended dosage indicated in Table 1 or 2 based on your target weed species in a single application.

For Example: A ¼-acre pond with an average depth of 4 feet, targeting control of duckweed and pondweed (Table 1). A total of 3.8 lbs. of SePRO Total Pond - Prevent is needed for the season. For the Early Season Program, apply this amount of product over two applications of 1.9 lbs. each, one month apart. For the In-season Program, apply 3.8 lbs. of product in one application.

Susceptible Aquatic Weeds for Use Rates in Table 1.

Bladderwort
Common Elodea
Egeria, Brazilian Elodea
Hydrilla
Naiad
Pondweed (except Illinois pondweed)
Watermilfoil
Azolla
Duckweed
Tapegrass, American eelgrass

**Table 1.
SePRO Total Pond - Prevent rates (lbs.)**

Average Pond Depth (ft.)	Pond Size (ac)		
	1/8	1/4	1/2
1	0.5	0.9	1.9
2	0.9	1.9	3.8
3	1.4	2.8	5.6
4	1.9	3.8	7.5
5	2.3	4.7	9.4
6	2.8	5.6	11.3
7	3.3	6.6	13.1
8	3.8	7.5	15.0

Susceptible Aquatic Weeds for Use Rates in Table 2.

Common Coontail
Fanwort, Cabomba
Illinois Pondweed
American Lotus
Parrotfeather
Spatterdock
Spikerush
Waterlily
Waterpurslane
Watershield

**Table 2.
SePRO Total Pond - Prevent rates (lbs.)**

Average Pond Depth (ft.)	Pond Size (ac)		
	1/8	1/4	1/2
1	0.9	1.9	3.8
2	1.9	3.8	7.5
3	2.8	5.6	11.3
4	3.8	7.5	15.0
5	4.7	9.4	18.8
6	5.6	11.3	22.5
7	6.6	13.1	26.3
8	7.5	15.0	30.0

The maximum application rate or sum of all application rates per annual growing cycle is 36 lbs./acre, 4 feet deep in ponds less than 10 acres in size.

USE RESTRICTIONS

Obtain Required Permits: Consult with appropriate state or local water authorities before applying this product. Permits may be required by state or local public agencies.

For purposes of SePRO Total Pond – Prevent labeling, calculate parts per billion (ppb) with the following conversion:

$$ppb = \text{SePRO Total Pond – Prevent per surface acre (lbs.)} \div \text{average depth (ft)} \div 0.1$$

Water Use Restrictions Following Applications With SePRO Total Pond - Prevent

Drinking, Fishing and Swimming: Drinking, fishing and swimming are allowed following application. Note below application restrictions around potable water intakes.

Livestock/Pet Consumption: Drinking by livestock and pets is allowed following application.

Hydroponic Farming, Greenhouse and Nursery Plants: Do not use SePRO Total Pond – Prevent treated water for hydroponic farming, or greenhouse or nursery plants irrigation, unless concentrations are less than 1 ppb as determined by an approved laboratory analysis. (Please contact a SePRO Total Pond Advisor for details about this service.)

Potable Water Intakes: Concentrations of the active ingredient up to 150 ppb are allowed in potable water sources; however, in lakes and reservoirs or other sources of potable water, do not apply Total Pond – Prevent at application rates greater than 20 ppb within one-fourth (1/4) mile (1,320 feet) of any functioning potable water intake. At application rates of 8-20 ppb, Total Pond – Prevent may be applied where functioning potable water intakes are present.

Irrigation: For tobacco, tomatoes, peppers or other plants within the Solanaceae Family and newly seeded crops or newly seeded grasses such as overseeded golf course greens, do not use SePRO Total Pond - Prevent treated water if concentrations are greater than 5 ppb; furthermore, when rotating crops, do not plant members of the Solanaceae family in land that has been previously irrigated with concentrations in excess of 5 ppb without consultation with a SePRO Total Pond Advisor. It is recommended that a SePRO Total Pond Advisor be consulted prior to commencing irrigation of these sites.

USE PRECAUTIONS

Irrigation: Irrigation with SePRO Total Pond - Prevent treated water may result in injury to the irrigated vegetation. Follow these precautions and inform those who irrigate from areas treated with this product of the irrigation time frames and approved laboratory analysis requirements presented in the table below. These time frames and analysis recommendations are suggestions which should be followed to reduce the potential for injury to vegetation irrigated with water treated with this product. Greater potential for crop injury occurs where SePRO Total Pond - Prevent treated water is applied to crops grown on low organic and sandy soils.

Application Site	Days After Application Before Irrigation		
	Established Tree Crops	Established Row Crops/ Turf/Plants	Newly Seeded Crops/Seedbeds or Areas to be Planted Including Overseeded Golf Course Greens
Ponds and Static Canals [†]	7	30	approved laboratory analysis required ^{†††}
Lakes and Reservoirs ^{††}	7	7	approved laboratory analysis required ^{†††}

[†] For purposes of SePRO Total Pond - Prevent labeling, a pond is defined as a body of water 10 acres or less in size. A lake or reservoir is greater than 10 acres.

^{††} In lakes and reservoirs where one-half or greater of the body of water is treated, use the pond and static canal irrigation precautions.

^{†††} Please contact a SePRO Total Pond Advisor for details about this service.

Where the use of SePRO Total Pond - Prevent treated water is desired for irrigating crops prior to the time frames established above, the use of an approved laboratory analysis is recommended to measure the concentration in the treated water. (Please contact a SePRO Total Pond Advisor for details about this service.) Where such an analysis has determined that concentrations are less than 10 parts per billion, there are no irrigation precautions for irrigating established tree crops, established row crops or turf.

For more information on how to obtain a FastEST sample kit, contact a SePRO Total Pond Advisor TOLL FREE at 1-844-766-2727 or email service@seprototal.com

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wear long sleeved shirt, long pants, shoes and socks.

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053 .	

ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Trees and shrubs growing in water treated with SePRO Total Pond - PREVENT may occasionally develop chlorosis.

STORAGE AND DISPOSAL
Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, contain material and dispose as waste.
Container Handling
Nonrefillable Container. DO NOT reuse or refill this container.
If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

Notice: Research and testing have determined that the "directions for use" are appropriate for the proper use of this product under expected conditions. To the extent consistent with applicable law, the buyer assumes responsibility for lack of performance or safety if not used according to the directions. To the extent consistent with applicable law, Manufacturer makes no other express or implied warranty of fitness or merchantability nor any other express or

implied warranty. In no case shall Manufacturer be liable for consequential, special or indirect damages resulting from the use, handling or application of this product.



Need help? A SePRO Pond Advisor can remotely and accurately measure the size of your pond and discuss a personalized strategy to achieve your management objectives. Call us TOLL FREE at 1-844-766-2727 or email service@seprototal.com

SePRO Total Pond - Prevent is a registered trademark of SePRO Corporation.
Sonar is a registered trademark of SePRO Corporation.

Copyright ©____ SePRO Corporation

[Base label for STP ONLY containers]



SePRO Total Pond – Prevent®

Contains Sonar® for Early-Season Floating and Submersed Weed Control

Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone 2.7%

Other Ingredients 97.3%

TOTAL 100.0%

Contains 0.027 lbs active ingredient per pound.

Keep Out of Reach of Children

CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wear long sleeved shirt, long pants, shoes and socks.

Refer to the inside of the label booklet for additional precautionary information and directions for use.

FIRST AID	
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If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053 .	

STORAGE AND DISPOSAL

Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, contain material and dispose as waste.

Container Handling

Nonrefillable Container. DO NOT reuse or refill this container.

If empty: Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

SePRO Total Pond - Prevent is a registered trademark of SePRO Corporation.

Sonar is a registered trademark of SePRO Corporation.

Copyright © ____ SePRO Corporation

SePRO Corporation 11550 North Meridian Street, Suite 600, Carmel, IN 46032

1-844-766-2727

EPA Reg. No. 67690-61
FPL20141006

EPA Est. No. _____
[SPC -] _____

SePRO Corporation • 11550 N. Meridian Street, Suite 600 • Carmel, IN 46032, U.S.A.

Net weight 3Lbs (Non-refillable)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

October 10, 2014

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

LAURENT MEZIN, PH.D.
SEPRO CORPORATION
11550 N. MERIDIAN ST., SUITE 600
CARMEL, IN 46032-4565

PRODUCT NAME: SONAR H4C
COMPANY NAME: SEPRO CORPORATION
OPP IDENTIFICATION NUMBER:
EPA FILE SYMBOL: 67690-61
EPA RECEIPT DATE: 10/09/14

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Registration Division, Risk Management Team 23, at (703) 305-1243.

Sincerely,

A handwritten signature in black ink, appearing to be "S. G." or similar, written over a horizontal line.

Front End Processing Staff
Information Services Branch
Information Technology & Resources Management Division

EPA United States Environmental Protection Agency Washington, DC 20460	<input type="checkbox"/> Registration <input checked="" type="checkbox"/> Amendment <input type="checkbox"/> Other	OPP Identifier Number
---	---	-----------------------

Application for Pesticide - Section I

1. Company/Product Number 67690-61 4. Company/Product (Name) SePRO Corporation/Sonar H4C	2. EPA Product Manager Kathryn Montague PM# 23	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
5. Name and Address of Applicant (Include ZIP Code) SePRO CORPORATION 11550 N. Meridian St., Suite 600 Carmel, IN 46032 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(I), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

Section II

<input checked="" type="checkbox"/> Amendment - Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated XX-XX-XX <input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application <input type="checkbox"/> Other - Explain below.
---	--

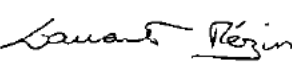
Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Submission of amendment to add a sub-label and add an alternate brand name.

Section III

1. Material This Product Will Be Packaged In:					
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Unit Packaging wgt. _____ No. per Container _____	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Package wgt. _____ No. per Container _____	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) Plastic Bag		
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1-100 lbs		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled					

Section IV

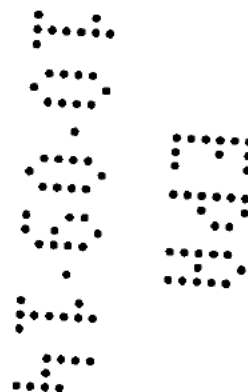
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Laurent C. Mézin	Title Regulatory Affairs Manager	Telephone No. (Include Area Code) (317) 580-8286
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature BY: 	3. Title Regulatory Affairs Manager	
4. Typed Name: Laurent C. Mézin	5. Date: 08 October 2014	



SePRO Corporation • 11550 North Meridian Street • Suite 600 • Carmel, Indiana 46032-4565
Phone: (317) 580-8282 Fax: (317) 580-8290

08 October 2014

Kathryn Montague
Product Manager 23
Document Processing Desk (AMEND)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501



RE: Sonar H4C (EPA Reg. No. 67690-61)
Fast track label amendment to add a sublabel and add an ABN

Dear Ms. Montague:

SePRO Corporation is submitting a Fast-track amendment to add a retail sublabel and an alternate brand name.

The following enclosed items support this amendment:

- Cover letter (this document);
- Application for Registration, EPA Form 8570-1;
- Five (5) copies of the Label for Sonar H4C (1 highlighted and 4 clean).

If you have any questions regarding this submission, please contact me at (317) 580-8286 or LaurentM@sepro.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Laurent Mézin". It is written over a horizontal line.

Laurent C. Mézin
Manager, Regulatory Affairs

Enclosures

Material Sent for Data Extraction

Reg. # 67690-61

Description: Label Note

☐ Material(s) Sent to Data Extraction Contractors:

☒ New Stamped Label Dated 8-7-14

☒ Notification Dated 8-7-14

☐ New CSF(s) Dated _____

☐ Other: _____

☒ Decision #: 493820

☐ Other Action/Comments: _____

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

Reviewer: E. W. L.

Phone: Division: 308-5372

Date: 8-7-14

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460



OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

August 7, 2014

Laurent Mezin
Manager, Regulatory Affairs
SePRO Corporation
11550 North Meridian Street
Suite 600
Carmel, Indiana 46032-4565

Subject: Label Notification per PRN 98-10 – Add species and other minor changes
Product Name: Sonar H4C
EPA Registration Number: 67690-61
Application Date: 8-4-14
Decision Number: 493880

Dear Mr. Mezin:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, you may contact Erik Kraft at 703-308-9358 or via email at Kraft.Erik@epa.gov

Sincerely,

A handwritten signature in black ink, appearing to read "Kathryn Montague".

Kathryn Montague, Product Manager 23
Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

EPA United States Environmental Protection Agency Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
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Application for Pesticide - Section I

1. Company/Product Number 67690-61 4. Company/Product (Name) SePRO Corporation/Sonar H4C	2. EPA Product Manager Kathryn Montague PM# 23	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
5. Name and Address of Applicant (include ZIP Code) SePRO CORPORATION 11550 N. Meridian St., Suite 600 Carmel, IN 46032 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

Section II

<input type="checkbox"/> Amendment - Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated XX-XX-XX <input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application <input type="checkbox"/> Other - Explain below.
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Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Submission of notification to make minor changes to label for the end use product Sonar H4C.

Section III

1. Material This Product Will Be Packaged In:					
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) Plastic Bag		
*Certification must be submitted		If "Yes" Unit Packaging wgt. No. per Container	If "Yes" Package wgt. No. per Container		
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1-100 lbs		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled					

Section IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Laurent C. Mézin	Title Regulatory Affairs Manager	Telephone No. (include Area Code) (317) 580-8286
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature BY: <i>Laurent Mézin</i>	3. Title Regulatory Affairs Manager	
4. Typed Name: Laurent C. Mézin	5. Date: 04 August 2014	



SePRO Corporation • 11550 North Meridian Street • Suite 600 • Carmel, Indiana 46032-4565
Phone: (317) 580-8282 Fax: (317) 580-8290

04 August 2014

Kathryn Montague
Product Manager 23
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

RE: Sonar H4C (EPA Reg. No. 67690-61)
Notification to add species to the label

Dear Ms. Montague:

SePRO Corporation is submitting minor label changes as a notification under PR Notice 98-10 for the product Sonar H4C (EPA Reg. No. 67690-61), to add a few controlled species, and other minor changes. The following enclosed items support this notification:

- Cover letter (this document);
- Application for Registration, EPA Form 8570-1;
- Two (2) copies of the Label for Sonar H4C (1 highlighted and 1 clean).

This notification is consistent with the provisions of the PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 USC Sec. 1001 to willfully make any false statement to the EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

If you have any questions regarding this submission, please contact me at (317) 580-8286 or
LaurentM@sepro.com.

Sincerely,

Laurent C. Mézin
Manager, Regulatory Affairs

Enclosures

Sonar® H4C

AQUATIC HERBICIDE

EPA Reg. No. 67690-61

FPL20140804 Highlighted

Registration Notes: Based on EPA-Stamped label with FPL20130422.

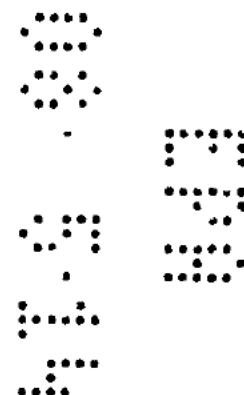
Label Notes:

General Label notes:

Label changes:

1. Updated FPL date
2. Deleted redundant text on the front label ('Aquatic Herbicide')
3. Added some species controlled in the following sections:
 - a. Plant control Information

NOTIFICATION
AUG 07 2014



[Front of label booklet, ALL containers]

NOTIFICATION

AUG 07 2014



Sonar® H4C

AQUATIC HERBICIDE

AN HERBICIDE FOR MANAGEMENT OF AQUATIC VEGETATION IN FRESH WATER PONDS, LAKES, RESERVOIRS (INCLUDING INLETS AND TRIBUTARIES), POTABLE WATER SOURCES, DRAINAGE CANALS, IRRIGATION CANALS AND RIVERS.

Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone 2.7%

Other Ingredients 97.3%

TOTAL 100.0%

Contains 0.027 lb active ingredient per pound.

Keep Out of Reach of Children

CAUTION / PRECAUCIÓN

Refer to inside of label booklet for additional precautionary information and Directions for Use including First Aid and Storage and Disposal.

NOTICE: Read the entire label before using. Use only according to label directions. Before buying or using this product, read *Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies* inside label booklet.

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center for treatment advice.
HOTLINE NUMBER	

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Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call **INFOTRAC** at **1-800-535-5053**.

EPA Reg. No. 67690-~~61~~XX
FPL2014080430422

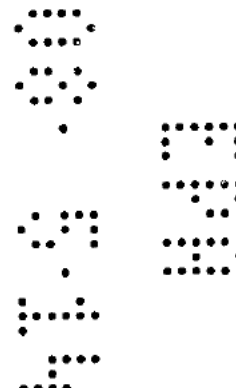
EPA Est. No. _____
[SPC -] _____

SePRO Corporation • 11550 N. Meridian Street, Suite 600 • Carmel, IN 46032, U.S.A.

Aquatic Herbicide

Net contents _____
[Refillable/Nonrefillable container _____]

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[Label booklet text, ALL containers]

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wear long sleeved shirt, long pants, shoes and socks.

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCIÓN

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or Clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053 .	

USER SAFETY RECOMMENDATIONS

- wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Trees and shrubs growing in water treated with Sonar H4C may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow

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areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read all Directions Carefully Before Applying Sonar H4C.

PRODUCT INFORMATION

Sonar H4C herbicide is a selective systemic aquatic herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs (including inlets and tributaries), drainage canals, irrigation canals, and rivers. Sonar H4C is a pelleted formulation containing 2.7% fluridone designed to provide enhanced numbers of pellets (greater coverage) in treated areas versus other Sonar pellet formulations at equivalent herbicide dosing. This higher density of pellets has the potential to improve herbicide contact with target vegetation in higher exchange treatment scenarios such as spot or small-partial application designs. Sonar H4C is absorbed from water by plant shoots and from hydrosol by the roots of aquatic vascular plants. It is important to maintain Sonar H4C in contact with the target plants for as long as possible. Rapid water movement or any condition which results in rapid dilution of Sonar H4C in treated water will reduce its effectiveness. In susceptible plants, Sonar H4C inhibits the formation of carotene. In the absence of carotene, chlorophyll is rapidly degraded by sunlight.

Herbicidal symptoms of Sonar H4C appear in seven to ten days and appear as white (chlorotic) or pink growing points. Under optimum conditions, 30 to 90 days are required before the desired level of aquatic weed management is achieved with Sonar H4C. Species susceptibility to Sonar H4C may vary depending on time of year, stage of growth and water movement. For best results, apply Sonar H4C prior to initiation of weed growth or when weeds begin active growth. Application to mature target plants may require an application rate at the higher end of the specified rate range and may take longer to control.

Sonar H4C is not corrosive to application equipment.

The label provides recommendations on the use of a chemical analysis for the active ingredient. SePRO Corporation recommends the use of a High-Performance Liquid Chromatography (HPLC) for the determination of the active ingredient concentration in the water. Contact SePRO Corporation to incorporate this test, known as a FastEST, into your treatment program. Other proven chemical analyses for the active ingredient may also be used. The FastEST is referenced in this label as the preferred method for the rapid determination of the concentration of the active ingredient in the water.

Application rates are provided in pounds of Sonar H4C to achieve a desired concentration of the active ingredient in parts per billion (ppb). **The maximum application rate or sum of all application rates is 90 ppb in ponds (< 10 Acres) and 150 ppb in lakes and reservoirs per annual growth cycle.** This maximum concentration is the amount of product calculated as the target application rate, NOT determined by testing the concentrations of the active ingredient in the treated water.

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Use Restrictions

- **Obtain Required Permits:** Consult with appropriate state or local water authorities before applying this product. Permits may be required by state or local public agencies.
- **New York State:** Application of Sonar H4C is not permitted in waters less than two (2) feet deep, except as permitted under FIFRA Section 24(c), Special Local Need registration.
- **Hydroponic Farming:** Do not use Sonar H4C treated water for hydroponic farming unless a FastEST has been run and confirmed that concentrations are less than 1 ppb.
- **Greenhouse and Nursery Plants:** Consult with SePRO Corporation for site-specific recommendations prior to any use of Sonar H4C treated water for irrigating greenhouse or nursery plants. Without site-specific guidance from SePRO, do not use Sonar H4C treated water for irrigating greenhouse or nursery plants unless a FastEST has been run and confirmed that concentrations are less than 1 ppb.

Water Use Restrictions Following Applications With Sonar H4C (Days)

Application Rate	Drinking [†]	Fishing	Swimming	Livestock/Pet Consumption	Irrigation ^{††}
Maximum Rate (150 ppb) or less	0	0	0	0	See irrigation instructions below

[†] Note below, under *Potable Water Intakes*, the information for application of Sonar H4C within ¼ miles (1,320) feet of a functioning potable water intake.

^{††} Note below, under *Irrigation*, specific time frames or fluridone concentrations that provide the widest safety margin for irrigating with fluridone treated water.

- **Potable Water Intakes:** Concentrations of the active ingredient fluridone up to 150 ppb are allowed in potable water sources; however, in lakes and reservoirs or other sources of potable water, do not apply Sonar H4C at application rates greater than 20 ppb within one-fourth (1/4) mile (1,320 feet) of any functioning potable water intake. At application rates of 8-20 ppb, Sonar H4C may be applied where functioning potable water intakes are present. **NOTE: Existing potable water intakes which are no longer in use, such as those replaced by connections to potable water wells or a municipal water system, are not considered to be functioning potable water intakes.**
- **Irrigation:** For tobacco, tomatoes, peppers or other plants within the Solanaceae Family and newly seeded crops or newly seeded grasses such as overseeded golf course greens, do not use Sonar H4C treated water if concentrations are greater than 5 ppb; furthermore, when rotating crops, do not plant members of the Solanaceae family in land that has been previously irrigated with fluridone concentrations in excess of 5 ppb without consultation with a SePRO Aquatic Specialist. It is recommended that a SePRO Aquatic Specialist be consulted prior to commencing irrigation of these sites.

Use Precautions

- **Irrigation:** Irrigation with Sonar H4C treated water may result in injury to the irrigated vegetation. Follow these precautions and inform those who irrigate from areas treated with Sonar H4C of the irrigation time frames or FastEST requirements presented in the table.
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below. These time frames and FastEST recommendations are suggestions which should be followed to reduce the potential for injury to vegetation irrigated with water treated with Sonar H4C. Greater potential for crop injury occurs where Sonar H4C treated water is applied to crops grown on low organic and sandy soils.

Application Site	Days After Application		
	Established Tree Crops	Established Row Crops/ Turf/Plants	Newly Seeded Crops/Seedbeds or Areas to be Planted Including Overseeded Golf Course Greens
Ponds and Static Canals †	7	30	FastEST required
Canals	7	7	FastEST required
Rivers	7	7	FastEST required
Lakes and Reservoirs ††	7	7	FastEST required

† For purposes of Sonar H4C labeling, a pond is defined as a body of water 10 acres or less in size. A lake or reservoir is greater than 10 acres.

†† In lakes and reservoirs where one-half or greater of the body of water is treated, use the pond and static canal irrigation precautions.

Where the use of Sonar H4C treated water is desired for irrigating crops prior to the time frames established above, the use of a FastEST is recommended to measure the concentration in the treated water. Where a FastEST has determined that concentrations are less than 10 parts per billion, there are no irrigation precautions for irrigating established tree crops, established row crops or turf.

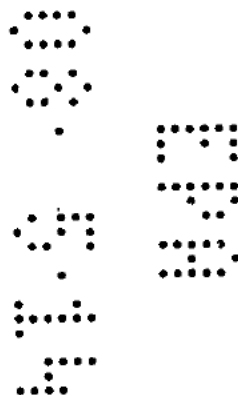
PLANT CONTROL INFORMATION

Sonar H4C selectivity is dependent upon dosage, time of year, stage of growth, method of application, and water movement. The following categories, controlled, partially controlled, and not controlled are provided to describe expected efficacy under ideal treatment conditions using higher to maximum label rates. Use of lower rates will increase selectivity of some species listed as controlled or partially controlled. Additional aquatic plants may be controlled, partially controlled, or tolerant to Sonar H4C. It is recommended to consult a SePRO Aquatic Specialist prior to application of Sonar H4C to determine a plant's susceptibility to Sonar H4C.

Vascular Aquatic Plants Controlled by Sonar H4C: 1

Submersed Plants:

bladderwort (*Utricularia* spp.)
 common coontail (*Ceratophyllum demersum*) †
 common Elodea (*Elodea canadensis*) †
 egeria, Brazilian Elodea (*Egeria densa*)
 fanwort, Cabomba (*Cabomba caroliniana*)
 hydrilla (*Hydrilla verticillata*)
 naiad (*Najas* spp.) †
 pondweed (*Potamogeton* spp., except Illinois pondweed) †
 watermilfoil (*Myriophyllum* spp. except variable-leaf milfoil)



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Floating Plants:

azolla (*Azolla* spp.)

duckweed (*Lemna*, *Landoltia*, and *Spirodela* spp.)

Shoreline Grasses:

paragrass (*Urochloa mutica*)

¹ Species denoted by a dagger (†) are native plants that are often tolerant to fluridone at lower use rates. Please consult a SePRO Aquatic Specialist for recommended Sonar H4C use rates (not to exceed maximum labeled rates) when selective control of exotic species is desired.

Vascular Aquatic Plants Partially Controlled by Sonar H4C:

Submersed Plants:

Illinois pondweed (*Potamogeton illinoensis*)

limnophila (*Limnophila sessiliflora*)

tapegrass, American eelgrass (*Vallisneria americana*)

watermilfoil--variable-leaf (*Myriophyllum heterophyllum*)

Emerald Plants:

alligatorweed (*Alternanthera philoxeroides*)

American lotus (*Nelumbo lutea*)

cattail (*Typha* spp.)

creeping waterprimrose (*Ludwigia peploides*)

parrotfeather (*Myriophyllum aquaticum*)

smartweed (*Polygonum* spp.)

spatterdock (*Nuphar luteum*)

spikerush (*Eleocharis* spp.)

waterlily (*Nymphaea* spp.)

waterpurslane (*Ludwigia palustris*)

watershield (*Brasenia schreberi*)

Floating Plants:

Salvinia (*Salvinia* spp.)

Shoreline Grasses:

barnyardgrass (*Echinochloa crusgalli*)

giant cutgrass (*Zizaniopsis miliacea*)

reed canarygrass (*Phalaris arundinacea*)

southern watergrass (*Hydrochloa carolinensis*)

torpedograss (*Panicum repens*)

Vascular Aquatic Plants Not Controlled by Sonar H4C:

Emerald Plants:

American frogbit (*Limnobium spongia*)

arrowhead (*Sagittaria* spp.)

bacopa (*Bacopa* spp.)

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big floatingheart, banana lily (*Nymphoides aquatica*)
 bulrush (*Scirpus* spp.)
 pickerelweed, lanceleaf (*Pontederia* spp.)
 rush (*Juncus* spp.)
 water pennywort (*Hydrocotyle* spp.)

Floating Plants:

floating waterhyacinth (*Eichhornia crassipes*)
 waterlettuce (*Pistia stratiotes*)

Shoreline Grasses:

maiden cane (*Panicum hemitomon*)

NOTE: algae (chara, nitella, and filamentous species) are not controlled by Sonar H4C

APPLICATION DIRECTIONS

The aquatic plants present in the treatment site should be identified prior to application to determine their susceptibility to Sonar H4C. It is important to determine the area (acres) to be treated and the average depth in order to select the proper application rate. Do not exceed the maximum labeled rate for a given treatment site per annual growth cycle.

Application to Ponds

Sonar H4C may be applied to the entire surface area of a pond. For single applications, rates may be selected to provide 45 to 90 ppb to the treated water, although actual concentrations in treated water may be substantially lower at any point in time due to the slow-release formulation of this product. When treating for optimum selective control, lower rates may be applied for sensitive target species. Use the higher rate within the rate range where there is a dense weed mass, when treating more difficult to control species, and for ponds less than 5 acres in size with an average depth less than 4 feet. Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the *Application Rate Calculation—Ponds, Lakes and Reservoirs* section of this label. Split or multiple applications may be used where dilution of treated water is anticipated; however, the sum of all applications should total 45 to 90 ppb and must not exceed a total of 90 ppb per annual growth cycle.

Average Water Depth of Treatment Site (feet)	Pounds of Sonar H4C per Treated Surface Acre	
	45 ppb	90 ppb
1	4.5	9
2	9	18
3	13.5	27
4	18	36
5	22.5	45
6	27	54
7	31.5	63
8	36	72
9	40.5	81

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10	45	90
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Application to Lakes and Reservoirs

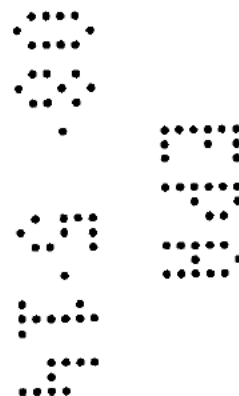
The following treatments may be used for treating both whole lakes or reservoirs and partial areas of lakes or reservoirs (bays, etc.). For best results in treating partial lakes and reservoirs, Sonar H4C treatment areas should be a minimum of 5 acres in size. Treatment of areas smaller than 5 acres or treatment of narrow strips such as boat lanes or shorelines may not produce satisfactory results due to dilution by untreated water. Rate ranges are provided as a guide to include a wide range of environmental factors, such as target species, plant susceptibility, selectivity and other aquatic plant management objectives. Application rates and methods should be selected to meet the specific lake/reservoir aquatic plant management goals.

A. Whole Lake or Reservoir Treatments (Limited or No Water Discharge)

Single Application to Whole Lakes or Reservoirs

Where single applications to whole lakes or reservoirs are desired, apply Sonar H4C at an application rate not to exceed 90 ppb, and in a suggested range of 16 to 90 ppb. Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the *Application Rate Calculation—Ponds, Lakes and Reservoirs* section of this label. Choose an application rate not to exceed 90 ppb to meet the aquatic plant management objective. **Where greater plant selectivity is desired such as when controlling Eurasian watermilfoil and curlyleaf pondweed, choose an application rate lower in the rate range.** For other plant species, SePRO recommends contacting a SePRO Aquatic Specialist in determining when to choose application rates lower in the rate range to meet specific plant management goals. Use the higher rate within the rate range where there is a dense weed mass or when treating more difficult to control plant species or in the event of a heavy rainfall event where dilution has occurred. In these cases, a second application or more may be required; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Refer to the section of this label entitled, *Split or Multiple Applications to Whole Lakes or Reservoirs*, for guidelines and maximum rate allowed.

Average Water Depth of Treatment Site (feet)	Pounds of Sonar H4C Per Treated Surface Acre	
	16 ppb	90 ppb
1	1.6	9
2	3.2	18
3	4.8	27
4	6.4	36
5	8	45
6	9.6	54
7	11.2	63
8	12.8	72
9	14.4	81
10	16	90
11	17.6	99



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12	19.2	108
13	20.8	117
14	22.4	126
15	24	135
16	25.6	144
17	27.2	153
18	28.8	162
19	30.4	171
20	32	180

Split or Multiple Applications to Whole Lakes or Reservoirs

To meet certain plant management objectives, split or multiple applications may be desired in making whole lake treatments. Split or multiple application programs are desirable when the objective is to use the minimum effective dose and to maintain this lower dose for the sufficient time to ensure efficacy and enhance selectivity. Under these situations, use the lower rates within the rate range. **In controlling Eurasian watermilfoil and curlyleaf pondweed and where greater plant selectivity is desired, choose an application rate lower in the rate range.** For other plant species, SePRO recommends contacting a SePRO Aquatic Specialist in determining when to choose application rates lower in the rate range to meet specific plant management goals. For split or repeated applications, the sum of all applications must not exceed 150 ppb per annual growth cycle.

NOTE: In treating lakes or reservoirs that contain potable water intakes and when the application requires treating within ¼ mile of a potable water intake, no single application can exceed 20 ppb. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

B. Partial Lake or Reservoir Treatments

Where dilution of Sonar H4C with untreated water is anticipated, such as in partial lake or reservoir treatments, split or multiple applications may be used to extend the contact time to the target plants. The application rate and use frequency of Sonar H4C in a partial lake is highly dependent upon the treatment area. An application rate at the higher end of the specified rate range may be required and frequency of applications will vary depending upon the potential of untreated water diluting the Sonar H4C concentration in the treatment area. Use a rate at the higher end of the rate range where greater dilution with untreated water is anticipated.

Application Sites Greater Than ¼ Mile from a Functioning Potable Water Intake

For single applications, apply Sonar H4C at application rates not to exceed 150 ppb, and in a suggested range of 45 to 150 ppb. Split or multiple applications may be made; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Split applications should be conducted to maintain a sufficient concentration in the target area for a period of 45 days or longer. The use of a FastEST is recommended to maintain the desired concentration in the target area over time.

Application Sites within ¼ Mile of a Functioning Potable Water Intake

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In treatment areas that are within ¼ mile of a potable water intake, no single application can exceed 20 ppb. When utilizing split or repeated applications of Sonar H4C for sites which contain a potable water intake, a FastEST is required to determine the actual concentration in the water. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

Application Rate Calculation — Ponds, Lakes and Reservoirs

The amount of Sonar H4C to be applied to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

$$\text{Pounds of Sonar H4C required per treated acre} = \text{Average water depth of treatment site} \\ \times \text{Desired ppb concentration of active ingredient} \times 0.1$$

For example, the pounds per acre of Sonar H4C required to provide a concentration of 25 ppb of active ingredient in water with an average depth of 5 feet is calculated as follows:

$$5 \times 25 \times 0.1 = 12.5 \text{ pounds per treated surface acre.}$$

NOTE: Calculated rates may not exceed the maximum allowable rate in pounds per treated surface acre for the water depth listed in the application rate table for the site to be treated.

Application to Drainage Canals, Irrigation Canals and Rivers

Static Canals:

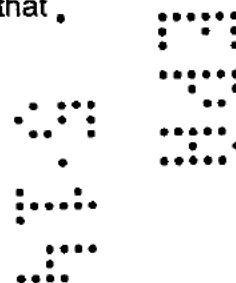
In static drainage and irrigation canals, apply Sonar H4C at typical use rates of 37 to 74 pounds per surface acre.

Moving Water Canals and Rivers:

The performance of Sonar H4C will be enhanced by restricting or reducing water flow. In slow moving bodies of water use an application technique that maintains a concentration of 10 to 40 ppb in the applied area for typically a minimum of 45 days. Sonar H4C can be applied by split or multiple broadcast applications or by metering in the product to provide a uniform concentration of the herbicide based upon the flow pattern. The use of a FastEST is recommended to maintain the desired concentration in the target area over time.

Static or Moving Water Canals or Rivers Containing a Functioning Potable Water Intake

In treating a static or moving water canal or river which contains a functioning potable water intake, applications of Sonar H4C greater than 20 ppb must be made more than ¼ mile from a functioning potable water intake. Applications less than 20 ppb may be applied within ¼ mile from a functioning potable water intake; however, if applications of Sonar H4C are made within ¼ mile from a functioning water intake, a FastEST must be utilized to demonstrate that concentrations do not exceed 150 ppb at the potable water intake.



Application Rate Calculation — Drainage Canals, Irrigation Canals and Rivers

The amount of Sonar H4C to be applied through a metering system to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

1. Average flow rate (feet per second) x average width (ft.) x average depth (ft.) x 0.9 = CFS (cubic feet per second)
2. CFS x 1.98 = acre feet per day (water movement)
3. Acre feet per day x desired ppb x 0.1 = pounds Sonar H4C required per day.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

Container Handling

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity ≤ 50 pounds) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Triple rinse containers too large to shake (capacity > 50 pounds) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check

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for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

TERMS AND CONDITIONS OF USE

If terms of the following *Warranty Disclaimer*, *Inherent Risks of Use* and *Limitation of Remedies* are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, to the extent consistent with applicable law, use by the buyer or any other user constitutes acceptance of the terms under *Warranty Disclaimer*, *Inherent Risks of Use*, and *Limitation of Remedies*.

WARRANTY DISCLAIMER

SePRO Corporation warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SEPRO CORPORATION MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of SePRO Corporation or the seller. To the extent consistent with applicable law, all such risks shall be assumed by buyer.

LIMITATION OF REMEDIES

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at SePRO Corporation's election, one of the following:

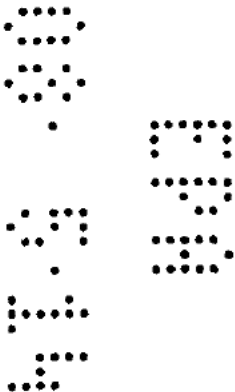
- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

To the extent consistent with applicable law, SePRO Corporation shall not be liable for losses or damages resulting from handling or use of this product unless SePRO Corporation is promptly notified of such losses or damages in writing. In no case shall SePRO Corporation be liable for consequential or incidental damages or losses.

The terms of the *Warranty Disclaimer*, *Inherent Risks of Use* and this *Limitation of Remedies* cannot be varied by any written or verbal statements or agreements. No employee or sales agent of SePRO Corporation or the seller is authorized to vary or exceed the terms of the *Warranty Disclaimer* or this *Limitation of Remedies* in any manner.

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[Base label for all containers]



Sonar® H4C

AQUATIC HERBICIDE

Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone 2.7%

Other Ingredients 97.3%

TOTAL 100.0%

Contains 0.027 lbs active ingredient per pound.

Keep Out of Reach of Children

CAUTION / PRECAUCIÓN

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wear long sleeved shirt, long pants, shoes and socks.

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053 .	

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ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Trees and shrubs growing in water treated with Sonar H4C may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

Container Handling

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Refillable Container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

See attached booklet for complete container disposal directions including triple rinsing and pressure rinsing instructions.

Refer to the inside of the label booklet for additional precautionary information and directions for use.

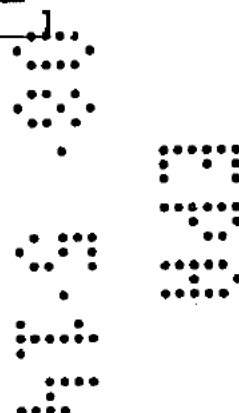
NOTICE: Read the entire label before using. Use only according to label directions. **Before buying or using this product, read *Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use* and *Limitation of Remedies* inside label booklet.**

EPA Reg. No. 67690-61XX
FPL2014080430422

EPA Est. No. _____
[SPC -] _____

SePRO Corporation • 11550 N. Meridian Street, Suite 600 • Carmel, IN 46032, U.S.A.

Net contents _____
[Refillable/Nonrefillable container _____]



Sonar is a registered trademark of SePRO Corporation

Receipt for Section 3

S: 955959

Milestone Email:

Regulatory Type: Product Registration - Section 3



Resubmission: ☐ Yes ☒ No

Application Type: Notification



Fee For Service: ☐ Yes ☒ No

Print Letter

Enter More Information

Tracking

Company: 67690 SEPRO CORPORATION



Risk Manager: Registration Division, Risk Management Team 23



Product #: 67690-61 Product Name: SONAR H4C

Override#:

Me Too
Section3:

Me Too Product
Name:

Application Date: 04-Aug-2014



OPP Rec'd Date: 05-Aug-2014



Front End Date: 05-Aug-2014



Risk Manager Send Date: 05-Aug-2014



FFS Due Date:

Negotiated Due Date:

OPP Target Date:

Fast Track: ☐

New Ingredient: ☐

Receipt Description:

NOTIFICATION to add species to the label

New Ingredient

Request Date:

New Ingredient

Received Date:

Form A: ☐ Signature Date:

Form B: ☐ Signature Date:

Receipt Content	Des
Paper Label	

View/Edit

332

Hi, Erik,

Label notif.

Thanks,
Kay



SePRO Corporation • 11550 North Meridian Street • Suite 600 • Carmel, Indiana 46032-4565
Phone: (317) 580-8282 Fax: (317) 580-8290

05 June 2013

Kathryn Montague
Product Manager 23
Document Processing Desk
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

**RE: Sonar H4C (EPA Reg. No. 67690-61)
Submission of Final Printed Label**

Dear Ms. Montague:

SePRO Corporation (SePRO, EPA Company Number 67690) is submitting the Final Printed Label for the end use product Sonar H4C, per the EPA letter of 29 April 2013.

The following enclosed items support this notification:

- Cover letter (this document);
- Application for Registration, EPA Form 8570-1;
- One (1) copy of the Final Printed Label for Sonar H4C.

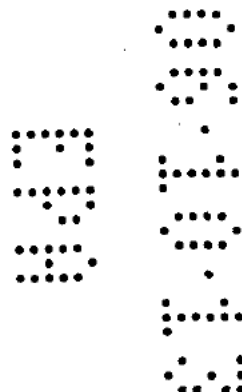
If you have any questions regarding this submission, please contact me at (317) 580-8286 or LaurentM@sepro.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Laurent Mézin". The signature is fluid and cursive, with the first name and last name clearly distinguishable.

Laurent C. Mézin
Manager, Regulatory Affairs

Enclosures



EPA United States Environmental Protection Agency Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
---	---	-----------------------

Application for Pesticide - Section I

1. Company/Product Number 67690-61	2. EPA Product Manager Kathryn Montague	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) SePRO Corporation/Sonar H4C	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) SePRO CORPORATION 11550 N. Meridian St., Suite 600 Carmel, IN 46032 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(I), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

Section II

<input type="checkbox"/> Amendment - Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated XX-XX-XX <input type="checkbox"/> Notification - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated 04-29-13 <input type="checkbox"/> "Me Too" Application <input type="checkbox"/> Other - Explain below.
--	--

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Submission of final printed label for the end use product Sonar H4C.

Section III

1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) Plastic Bag
*Certification must be submitted		If "Yes" Unit Packaging wgt. No. per Container	If "Yes" Package wgt. No. per Container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1-100 lbs	
5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product			
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			

Section IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Laurent C. Mézin	Title Regulatory Affairs Manager	Telephone No. (Include Area Code) (317) 580-8286
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete, and I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped) <div style="text-align: center;"> </div>
2. Signature BY:	3. Title Regulatory Affairs Manager	
4. Typed Name: Laurent C. Mézin	5. Date: 05 June 2013	

1079.40

Sonar[®] H4C

Aquatic Herbicide



An herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs (including inlets and tributaries), potable water sources, drainage canals, irrigation canals and rivers.

Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1*H*) pyridinone 2.7%

Other Ingredients 97.3%

TOTAL 100.0%

Contains 0.027 lb active ingredient per pound.

Keep Out of Reach of Children

CAUTION / PRECAUCIÓN

Refer to inside of label booklet for additional precautionary information and Directions for Use including First Aid and Storage and Disposal.

NOTICE: Read the entire label before using. Use only according to label directions. Before buying or using this product, read *Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use* and *Limitation of Remedies* inside label booklet.

Sonar is a registered trademark of SePRO Corporation.

SePRO Corporation 11550 North Meridian Street, Suite 600, Carmel, IN 46032, U.S.A.

EPA Reg. No. 67690-61

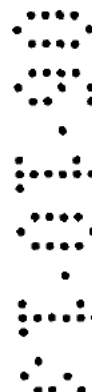
EPA Est. No. 96540-NC-001

FPL20130422

167901

Aquatic Herbicide

Net weight 40 pounds (Non-refillable)



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wear long sleeved shirt, long pants, shoes and socks.

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCIÓN

FIRST AID	
If swallowed	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15 to 20 minutes.• Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.• Call a poison control center for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053.	

USER SAFETY RECOMMENDATIONS

- wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Trees and shrubs growing in water treated with Sonar H4C may occasionally develop chlorosis. Do not apply in tidalwater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read all Directions Carefully Before Applying Sonar H4C.

PRODUCT INFORMATION

Sonar H4C herbicide is a selective systemic aquatic herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs (including inlets and tributaries), drainage canals, irrigation canals, and rivers. Sonar H4C is a pelleted formulation containing 2.7% fluridone designed to provide enhanced numbers of pellets (greater coverage) in treated areas versus other Sonar pellet formulations at equivalent herbicide dosing. This higher density of pellets has the potential to improve herbicide contact with target vegetation in higher exchange treatment scenarios such as spot or small-partial application designs. Sonar H4C is absorbed from water by plant shoots and from hydrosol by the roots of aquatic vascular plants. It is important to maintain Sonar H4C in contact with the target plants for as long as possible. Rapid water movement or any

condition which results in rapid dilution of Sonar H4C in treated water will reduce its effectiveness. In susceptible plants, Sonar H4C inhibits the formation of carotene. In the absence of carotene, chlorophyll is rapidly degraded by sunlight.

Herbicidal symptoms of Sonar H4C appear in seven to ten days and appear as white (chlorotic) or pink growing points. Under optimum conditions, 30 to 90 days are required before the desired level of aquatic weed management is achieved with Sonar H4C. Species susceptibility to Sonar H4C may vary depending on time of year, stage of growth and water movement. For best results, apply Sonar H4C prior to initiation of weed growth or when weeds begin active growth. Application to mature target plants may require an application rate at the higher end of the specified rate range and may take longer to control.

Sonar H4C is not corrosive to application equipment.

The label provides recommendations on the use of a chemical analysis for the active ingredient. SePRO Corporation recommends the use of a High-Performance Liquid Chromatography (HPLC) for the determination of the active ingredient concentration in the water. Contact SePRO Corporation to incorporate this test, known as a FastEST, into your treatment program. Other proven chemical analyses for the active ingredient may also be used. The FastEST is referenced in this label as the preferred method for the rapid determination of the concentration of the active ingredient in the water.

Application rates are provided in pounds of Sonar H4C to achieve a desired concentration of the active ingredient in parts per billion (ppb). **The maximum application rate or sum of all application rates is 90 ppb in ponds (< 10 Acres) and 150 ppb in lakes and reservoirs per annual growth cycle.** This maximum concentration is the amount of product calculated as the target application rate, NOT determined by testing the concentrations of the active ingredient in the treated water.

Use Restrictions

- **Obtain Required Permits:** Consult with appropriate state or local water authorities before applying this product. Permits may be required by state or local public agencies.
- **New York State:** Application of Sonar H4C is not permitted in waters less than two (2) feet deep, except as permitted under FIFRA Section 24(c), Special Local Need registration.
- **Hydroponic Farming:** Do not use Sonar H4C treated water for hydroponic farming unless a FastEST has been run and confirmed that concentrations are less than 1 ppb.
- **Greenhouse and Nursery Plants:** Consult with SePRO Corporation for site-specific recommendations prior to any use of Sonar H4C treated water for irrigating greenhouse or nursery plants. Without site-specific guidance from SePRO, do not use Sonar H4C treated water for irrigating greenhouse or nursery plants unless a FastEST has been run and confirmed that concentrations are less than 1 ppb.
- **Water Use Restrictions Following Applications With Sonar H4C (Days)**

Application Rate	Drinking†	Fishing	Swimming	Livestock/Pet Consumption	Irrigation††
Maximum Rate (150 ppb) or less	0	0	0	0	See irrigation instructions below

† Note below, under *Potable Water Intakes*, the information for application of Sonar H4C within ¼ miles (1,320) feet of a functioning potable water intake.

†† Note below, under *Irrigation*, specific time frames or fluridone concentrations that provide the widest safety margin for irrigating with fluridone treated water.

- **Potable Water Intakes:** Concentrations of the active ingredient fluridone up to 150 ppb are allowed in potable water sources; however, in lakes and reservoirs or other sources of potable water, **do not apply** Sonar H4C at application rates greater than 20 ppb within one-fourth (¼) mile (1,320 feet) of any functioning potable water intake. At application rates of 8-20 ppb, Sonar H4C **may be applied** where functioning potable water intakes are present. **NOTE: Existing potable water intakes which are no longer in use, such as those replaced by connections to potable water wells or a municipal water system, are not considered to be functioning potable water intakes.**
- **Irrigation:** For tobacco, tomatoes, peppers or other plants within the Solanaceae Family and newly seeded crops or newly seeded grasses such as overseeded golf course greens, do not use Sonar H4C treated water if concentrations are greater than 5 ppb; furthermore, when rotating crops, do not plant members of the Solanaceae family in land that has been previously irrigated with fluridone concentrations in excess of 5 ppb without consultation with a SePRO Aquatic Specialist. It is recommended that a SePRO Aquatic Specialist be consulted prior to commencing irrigation of these sites.

Use Precautions

- **Irrigation:** Irrigation with Sonar H4C treated water may result in injury to the irrigated vegetation. Follow these precautions and inform those who irrigate from areas treated with Sonar H4C of the irrigation time frames or FastEST requirements presented in the table below. These time frames and FastEST recommendations are suggestions which should be followed to reduce the potential for injury to vegetation irrigated with water treated with Sonar H4C. Greater potential for crop injury occurs where Sonar H4C treated water is applied to crops grown on low organic and sandy soils.

Application Site	Days After Application		
	Established Tree Crops	Established Row Crops/Turf/Plants	Newly Seeded Crops/Seedbeds or Areas to be Planted Including Overseeded Golf Course Greens
Ponds and Static Canals †	7	30	FastEST required
Canals	7	7	FastEST required
Rivers	7	7	FastEST required
Lakes and Reservoirs ††	7	7	FastEST required

† For purposes of Sonar H4C labeling, a pond is defined as a body of water 10 acres or less in size. A lake or reservoir is greater than 10 acres.

†† In lakes and reservoirs where one-half or greater of the body of water is treated, use the pond and static canal irrigation precautions.

Where the use of Sonar H4C treated water is desired for irrigating crops prior to the time frames established above, the use of a FastEST is recommended to measure the concentration in the treated water. Where a FastEST has determined that concentrations are less than 10 parts per billion, there are no irrigation precautions for irrigating established tree crops, established row crops or turf.

PLANT CONTROL INFORMATION

Sonar H4C selectivity is dependent upon dosage, time of year, stage of growth, method of application, and water movement. The following categories, controlled, partially controlled, and not controlled are provided to describe expected efficacy under ideal treatment conditions using higher to maximum label rates. Use of lower rates will increase selectivity of some species listed as controlled or partially controlled. Additional aquatic plants may be controlled, partially controlled, or tolerant to Sonar H4C. It is recommended to consult a SePRO Aquatic Specialist prior to application of Sonar H4C to determine a plant's susceptibility to Sonar H4C.

Vascular Aquatic Plants Controlled by Sonar H4C: †

Submersed Plants:

bladderwort (*Utricularia* spp.)
common coontail (*Coratophyllum demersum*) †
common Elodea (*Elodea canadensis*) †
egeria, Brazilian Elodea (*Egeria densa*)
fanwort, Cabomba (*Cabomba caroliniana*)
hydrilla (*Hydrilla verticillata*)
naiad (*Najas* spp.) †
pondweed (*Potamogeton* spp., except Illinois pondweed) †
watermilfoil (*Myriophyllum* spp. except variable-leaf milfoil)

Shoreline Grasses:

paragrass (*Urochloa mutica*)

† Species denoted by a dagger (†) are native plants that are often tolerant to fluridone at lower use rates. Please consult a SePRO Aquatic Specialist for recommended Sonar H4C use rates (not to exceed maximum labeled rates) when selective control of exotic species is desired.

Vascular Aquatic Plants Partially Controlled by Sonar H4C:

Submersed Plants:

Illinois pondweed (*Potamogeton illinoensis*)
limnophila (*Limnophila sessiliflora*)
tapegrass, American eelgrass (*Vallisneria spiralis*)
watermilfoil-variable-leaf (*Myriophyllum heterophyllum*)

Emersed Plants:

alligatorweed (*Alternanthera philoxeroides*)
American lotus (*Nelumbo lutea*)
cattail (*Typha* spp.)
creeping waterprimrose (*Ludwigia peploides*)
parrotfeather (*Myriophyllum aquaticum*)
smartweed (*Polygonum* spp.)
spatterdock (*Nuphar luteum*)
spikerush (*Eleocharis* spp.)
waterlily (*Nymphaea* spp.)

waterpurslane (*Ludwigia palustris*)
watershield (*Brasenia schreberi*)

Floating Plants:

Salvinia (*Salvinia* spp.)

Shoreline Grasses:

barnyardgrass (*Echinochloa crusgalli*)
giant cutgrass (*Zizaniopsis miliacea*)
reed canarygrass (*Phalaris arundinacea*)
southern watergrass (*Hydrochloa carolinensis*)
torpedograss (*Panicum repens*)

Vascular Aquatic Plants Not Controlled by Sonar H4C:

Emerald Plants:

American frogbit (*Limnobium spongia*)
arrowhead (*Sagittaria* spp.)
bacopa (*Bacopa* spp.)
big floatingheart, banana lily (*Nymphoides aquatica*)
bulrush (*Scirpus* spp.)
pickerelweed, lanceleaf (*Pontederia* spp.)
rush (*Juncus* spp.)
water pennywort (*Hydrocotyle* spp.)

Floating Plants:

floating waterhyacinth (*Eichhornia crassipes*)
waterlettuce (*Pistia stratiotes*)

Shoreline Grasses:

maidencane (*Panicum hemitomon*)

NOTE: algae (chara, nitella, and filamentous species) are not controlled by Sonar H4C

APPLICATION DIRECTIONS

The aquatic plants present in the treatment site should be identified prior to application to determine their susceptibility to Sonar H4C. It is important to determine the area (acres) to be treated and the average depth in order to select the proper application rate. Do not exceed the maximum labeled rate for a given treatment site per annual growth cycle.

Application to Ponds

Sonar H4C may be applied to the entire surface area of a pond. For single applications, rates may be selected to provide 45 to 90 ppb to the treated water, although actual concentrations in treated water may be substantially lower at any point in time due to the slow-release formulation of this product. When treating for optimum selective control, lower rates may be applied for sensitive target species. Use the higher rate within the rate range where there is a dense weed mass, when treating more difficult to control species, and for ponds less than 5 acres in size with an average depth less than 4 feet. Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the *Application Rate Calculation—Ponds, Lakes and Reservoirs* section of this label. Split or multiple applications may be used where dilution of treated water is anticipated; however, the sum of all applications should total 45 to 90 ppb and must not exceed a total of 90 ppb per annual growth cycle.

Average Water Depth of Treatment Site (feet)	Pounds of Sonar H4C per Treated Surface Acre	
	45 ppb	90 ppb
1	4.5	9
2	9	18
3	13.5	27
4	18	36
5	22.5	45
6	27	54
7	31.5	63
8	36	72
9	40.5	81
10	45	90

Application to Lakes and Reservoirs

The following treatments may be used for treating both whole lakes or reservoirs and partial areas of lakes or reservoirs (bays, etc.). For best results in treating partial lakes and reservoirs, Sonar H4C treatment areas should be a minimum of 5 acres in size. Treatment of areas smaller than 5 acres or treatment of narrow strips such as boat lanes or shorelines may not produce satisfactory results due to dilution by untreated water. Rate ranges are provided as a guide to include a wide range of environmental factors, such as target species, plant susceptibility, selectivity and other aquatic plant management objectives. Application rates and methods should be selected to meet the specific lake/reservoir aquatic plant management goals.

A. Whole Lake or Reservoir Treatments (Limited or No Water Discharge)

Single Application to Whole Lakes or Reservoirs

Where single applications to whole lakes or reservoirs are desired, apply Sonar H4C at an application rate not to exceed 90 ppb, and in a suggested range of 16 to 90 ppb.

Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the *Application Rate Calculation—Ponds, Lakes and Reservoirs* section of this label. Choose an application rate not to exceed 90 ppb to meet the aquatic plant management objective. **Where greater plant selectivity is desired such as when controlling Eurasian watermilfoil and curlyleaf pondweed, choose an application rate lower in the rate range.** For other plant species, SePRO recommends contacting a SePRO Aquatic Specialist in determining when to choose application rates lower in the rate range to meet specific plant management goals. Use the higher rate within the rate range where there is a dense weed mass or when treating more difficult to control plant species or in the event of a heavy rainfall event where dilution has occurred. In these cases, a second application or more may be required; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Refer to the section of this label entitled, *Spill or Multiple Applications to Whole Lakes or Reservoirs*, for guidelines and maximum rate allowed.

Average Water Depth of Treatment Site (feet)	Pounds of Sonar H4C Per Treated Surface Acre	
	16 ppb	90 ppb
1	1.6	9
2	3.2	18
3	4.8	27
4	6.4	36
5	8	45
6	9.6	54
7	11.2	63
8	12.8	72
9	14.4	81
10	16	90
11	17.6	99
12	19.2	108
13	20.8	117
14	22.4	126
15	24	135
16	25.6	144
17	27.2	153
18	28.8	162
19	30.4	171
20	32	180

Split or Multiple Applications to Whole Lakes or Reservoirs

To meet certain plant management objectives, split or multiple applications may be desired in making whole lake treatments. Split or multiple application programs are desirable when the objective is to use the minimum effective dose and to maintain this lower dose for the sufficient time to ensure efficacy and enhance selectivity. Under these situations, use the lower rates within the rate range. In controlling Eurasian watermilfoil and curlyleaf pondweed and where greater plant selectivity is desired, choose an application rate lower in the rate range. For other plant species, SePRO recommends contacting a SePRO Aquatic Specialist in determining when to choose application rates lower in the rate range to meet specific plant management goals. For split or repeated applications, the sum of all applications must not exceed 150 ppb per annual growth cycle.

NOTE: In treating lakes or reservoirs that contain potable water intakes and when the application requires treating within ¼ mile of a potable water intake, no single application can exceed 20 ppb. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

B. Partial Lake or Reservoir Treatments

Where dilution of Sonar H4C with untreated water is anticipated, such as in partial lake or reservoir treatments, split or multiple applications may be used to extend the contact time to the target plants. The application rate and use frequency of Sonar H4C in a partial lake is highly dependent upon the treatment area. An application rate at the higher end of the specified rate range may be required and frequency of applications will vary depending upon the potential of untreated water diluting the Sonar H4C concentration in the treatment area. Use a rate at the higher end of the rate range where greater dilution with untreated water is anticipated.

Application Sites Greater Than ¼ Mile from a Functioning Potable Water Intake

For single applications, apply Sonar H4C at application rates not to exceed 150 ppb, and in a suggested range of 45 to 150 ppb. Split or multiple applications may be made; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Split applications should be conducted to maintain a sufficient concentration in the target area for a period of 45 days or longer. The use of

a FastEST is recommended to maintain the desired concentration in the target area over time.

Application Sites within ¼ Mile of a Functioning Potable Water Intake

In treatment areas that are within ¼ mile of a potable water intake, no single application can exceed 20 ppb. When utilizing split or repeated applications of Sonar H4C for sites which contain a potable water intake, a FastEST is required to determine the actual concentration in the water. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

Application Rate Calculation — Ponds, Lakes and Reservoirs

The amount of Sonar H4C to be applied to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

$$\text{Pounds of Sonar H4C required per treated acre} = \text{Average water depth of treatment site} \times \text{Desired ppb concentration of active ingredient} \times 0.1$$

For example, the pounds per acre of Sonar H4C required to provide a concentration of 25 ppb of active ingredient in water with an average depth of 5 feet is calculated as follows:

$$5 \times 25 \times 0.1 = 12.5 \text{ pounds per treated surface acre.}$$

NOTE: Calculated rates may not exceed the maximum allowable rate in pounds per treated surface acre for the water depth listed in the application rate table for the site to be treated.

Application to Drainage Canals, Irrigation Canals and Rivers

Static Canals:

In static drainage and irrigation canals, apply Sonar H4C at typical use rates of 37 to 74 pounds per surface acre.

Moving Water Canals and Rivers:

The performance of Sonar H4C will be enhanced by restricting or reducing water flow. In slow moving bodies of water use an application technique that maintains a concentration of 10 to 40 ppb in the applied area for typically a minimum of 45 days. Sonar H4C can be applied by split or multiple broadcast applications or by metering in the product to provide a uniform concentration of the herbicide based upon the flow pattern. The use of a FastEST is recommended to maintain the desired concentration in the target area over time.

Static or Moving Water Canals or Rivers Containing a Functioning Potable Water Intake

In treating a static or moving water canal or river which contains a functioning potable water intake, applications of Sonar H4C greater than 20 ppb must be made more than ¼ mile from a functioning potable water intake. Applications less than 20 ppb may be applied within ¼ mile from a functioning potable water intake; however, if applications of Sonar H4C are made within ¼ mile from a functioning water intake, a FastEST must be utilized to demonstrate that concentrations do not exceed 150 ppb at the potable water intake.

Application Rate Calculation — Drainage Canals, Irrigation Canals and Rivers

The amount of Sonar H4C to be applied through a metering system to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

1. Average flow rate (feet per second) \times average width (ft.) \times average depth (ft.) \times 0.9 = CFS (cubic feet per second)
2. CFS \times 1.98 = acre feet per day (water movement)
3. Acre feet per day \times desired ppb \times 0.1 = pounds Sonar H4C required per day.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

Container Handling

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity ≤ 50 pounds) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Triple rinse containers too large to shake (capacity >50 pounds) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

TERMS AND CONDITIONS OF USE

If terms of the following *Warranty Disclaimer*, *Inherent Risks of Use* and *Limitation of Remedies* are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, to the extent consistent with applicable law, use by the buyer or any other user constitutes acceptance of the terms under *Warranty Disclaimer*, *Inherent Risks of Use*, and *Limitation of Remedies*.

WARRANTY DISCLAIMER

SePRO Corporation warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SEPRO CORPORATION MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of SePRO Corporation or the seller. To the extent consistent with applicable law, all such risks shall be assumed by buyer.

LIMITATION OF REMEDIES

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at SePRO Corporation's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

To the extent consistent with applicable law, SePRO Corporation shall not be liable for losses or damages resulting from handling or use of this product unless SePRO Corporation is promptly notified of such losses or damages in writing. In no case shall SePRO Corporation be liable for consequential or incidental damages or losses.

The terms of the *Warranty Disclaimer*, *Inherent Risks of Use* and this *Limitation of Remedies* cannot be varied by any written or verbal statements or agreements. No employee or sales agent of SePRO Corporation or the seller is authorized to vary or exceed the terms of the *Warranty Disclaimer* or this *Limitation of Remedies* in any manner.

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Sonar[®] H4C

Aquatic Herbicide

Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)
phenyl]-4(1H)-pyridinone 2.7%

Other Ingredients 97.3%

TOTAL 100.0%

Contains 0.027 lbs active ingredient per pound.

Keep Out of Reach of Children CAUTION / PRECAUCIÓN

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wear long sleeved shirt, long pants, shoes and socks.

ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Trees and shrubs growing in water treated with Sonar H4C may occasionally develop chlorosis. Do not apply in tidal water/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

Refer to the inside of the label booklet for additional precautionary information and directions for use.

NOTICE: Read the entire label before using. Use only according to label directions. **Before buying or using this product, read Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies** inside label booklet.

EPA Reg. No. 67690-61

EPA Est. No. 86540-NC-001

FPL20130422

167901

Sonar is a registered trademark of SePRO Corporation
SePRO Corporation 11550 N. Meridian Street, Suite 600
Carmel, IN 46032, U.S.A.

Aquatic Herbicide

1079.40

PEEL FILM HERE ▶

FIRST AID

If swallowed	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15 to 20 minutes.• Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.• Call a poison control center for treatment advice.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

Container Handling

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then either for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Refillable Container. Refill this container with pesticide only. DO NOT reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. See attached booklet for complete container disposal directions including triple rinsing and pressure rinsing instructions.

Net weight 40 pounds (Non-refillable)



8 10550 11442 9

Material Sent for Data Extraction

Reg. # 67690-~~AP~~ 61

Description: New Product

☐ Material(s) Sent to Data Extraction Contractors:

☒ New Stamped Label Dated 4-29-13

☐ Notification Dated _____

☐ New CSF(s) Dated _____

☐ Other: _____

☐ Decision #: 473466

☐ Other Action/Comments: _____

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

Reviewer: Grant Rowland

Phone: 347-0254 Division: RD/HB

Date: 5-8-13



**U.S. ENVIRONMENTAL PROTECTION
AGENCY**

**Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460**

EPA Reg.

Number:

67690-61

Date of Issuance:

APR 29 2013

NOTICE OF PESTICIDE:

☒ Registration

☐ Reregistration

(under FIFRA, as amended)

Term of Issuance: **Unconditional**

Name of Pesticide Product:

Sonar H4C

**Laurent C. Mezin
SePro Corporation
11550 N. Meridian St. Suite 600
Carmel, IN 46032**

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is registered in accordance with FIFRA sec. 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data.
2. Revise the EPA Reg No. to 67690-61
3. Assure that the establishment number and net content are added to the label
4. Submit one (1) copy of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

If you have any questions regarding this notice, please contact Grant Rowland at (703) 347-0254 or at rowland.grant@epa.gov.

Signature of Approving Official:

**Kay Montague
Product Manager 23
Herbicide Branch
Registration Division (7505P)**

Date:

APR 29 2013

Sonar[®] H4C

AQUATIC HERBICIDE

EPA Reg. No. 67690-XX

FPL20130422 Clean

Registration Notes: Based on EPA-Stamped label of Sonar SRP dated 26 April 2012 (FPL20120413), EPA submitted label with FPL20120604 and EPA comments of 17 & 19 April 2013.

Label Notes:

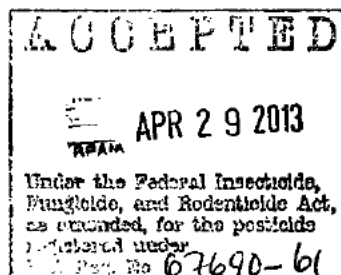
General Label notes:

1. New label based on Sonar SRP label.

[Front of label booklet, ALL containers]

Sonar® H4C

AQUATIC HERBICIDE



AN HERBICIDE FOR MANAGEMENT OF AQUATIC VEGETATION IN FRESH WATER PONDS, LAKES, RESERVOIRS (INCLUDING INLETS AND TRIBUTARIES), POTABLE WATER SOURCES, DRAINAGE CANALS, IRRIGATION CANALS AND RIVERS.

Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone 2.7%

Other Ingredients 97.3%

TOTAL 100.0%

Contains 0.027 lb active ingredient per pound.

Keep Out of Reach of Children

CAUTION / PRECAUCIÓN

Refer to inside of label booklet for additional precautionary information and Directions for Use including First Aid and Storage and Disposal.

NOTICE: Read the entire label before using. Use only according to label directions. Before buying or using this product, read *Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies* inside label booklet.

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present; after the first 5 minutes; then continue rinsing eye. • Call a poison control center for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or	

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going for treatment. In case of emergency endangering health or the environment involving this product, call **INFOTRAC** at **1-800-535-5053**.

EPA Reg. No. 67690-XX
FPL20130422

EPA Est. No. _____
[SPC -] _____

SePRO Corporation • 11550 N. Meridian Street, Suite 600 • Carmel, IN 46032, U.S.A.

Aquatic Herbicide

Net contents _____
[Refillable/Nonrefillable container _____ **]**

[Label booklet text, ALL containers]**PRECAUTIONARY STATEMENTS****HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wear long sleeved shirt, long pants, shoes and socks.

KEEP OUT OF REACH OF CHILDREN
CAUTION/PRECAUCIÓN

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or Clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053 .	

USER SAFETY RECOMMENDATIONS

- wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Trees and shrubs growing in water treated with Sonar H4C may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow

areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read all Directions Carefully Before Applying Sonar H4C.

PRODUCT INFORMATION

Sonar H4C herbicide is a selective systemic aquatic herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs (including inlets and tributaries), drainage canals, irrigation canals, and rivers. Sonar H4C is a pelleted formulation containing 2.7% fluridone designed to provide enhanced numbers of pellets (greater coverage) in treated areas versus other Sonar pellet formulations at equivalent herbicide dosing. This higher density of pellets has the potential to improve herbicide contact with target vegetation in higher exchange treatment scenarios such as spot or small-partial application designs. Sonar H4C is absorbed from water by plant shoots and from hydrosol by the roots of aquatic vascular plants. It is important to maintain Sonar H4C in contact with the target plants for as long as possible. Rapid water movement or any condition which results in rapid dilution of Sonar H4C in treated water will reduce its effectiveness. In susceptible plants, Sonar H4C inhibits the formation of carotene. In the absence of carotene, chlorophyll is rapidly degraded by sunlight.

Herbicidal symptoms of Sonar H4C appear in seven to ten days and appear as white (chlorotic) or pink growing points. Under optimum conditions, 30 to 90 days are required before the desired level of aquatic weed management is achieved with Sonar H4C. Species susceptibility to Sonar H4C may vary depending on time of year, stage of growth and water movement. For best results, apply Sonar H4C prior to initiation of weed growth or when weeds begin active growth. Application to mature target plants may require an application rate at the higher end of the specified rate range and may take longer to control.

Sonar H4C is not corrosive to application equipment.

The label provides recommendations on the use of a chemical analysis for the active ingredient. SePRO Corporation recommends the use of a High-Performance Liquid Chromatography (HPLC) for the determination of the active ingredient concentration in the water. Contact SePRO Corporation to incorporate this test, known as a FastEST, into your treatment program. Other proven chemical analyses for the active ingredient may also be used. The FastEST is referenced in this label as the preferred method for the rapid determination of the concentration of the active ingredient in the water.

Application rates are provided in pounds of Sonar H4C to achieve a desired concentration of the active ingredient in parts per billion (ppb). **The maximum application rate or sum of all application rates is 90 ppb in ponds (< 10 Acres) and 150 ppb in lakes and reservoirs per annual growth cycle.** This maximum concentration is the amount of product calculated as the target application rate, NOT determined by testing the concentrations of the active ingredient in the treated water.

Use Restrictions

- **Obtain Required Permits:** Consult with appropriate state or local water authorities before applying this product. Permits may be required by state or local public agencies.
- **New York State:** Application of Sonar H4C is not permitted in waters less than two (2) feet deep, except as permitted under FIFRA Section 24(c), Special Local Need registration.
- **Hydroponic Farming:** Do not use Sonar H4C treated water for hydroponic farming unless a FastEST has been run and confirmed that concentrations are less than 1 ppb.
- **Greenhouse and Nursery Plants:** Consult with SePRO Corporation for site-specific recommendations prior to any use of Sonar H4C treated water for irrigating greenhouse or nursery plants. Without site-specific guidance from SePRO, do not use Sonar H4C treated water for irrigating greenhouse or nursery plants unless a FastEST has been run and confirmed that concentrations are less than 1 ppb.

Water Use Restrictions Following Applications With Sonar H4C (Days)

Application Rate	Drinking [†]	Fishing	Swimming	Livestock/Pet Consumption	Irrigation ^{††}
Maximum Rate (150 ppb) or less	0	0	0	0	See irrigation instructions below

[†] Note below, under *Potable Water Intakes*, the information for application of Sonar H4C within ¼ miles (1,320) feet of a functioning potable water intake.

^{††} Note below, under *Irrigation*, specific time frames or fluridone concentrations that provide the widest safety margin for irrigating with fluridone treated water.

- **Potable Water Intakes:** Concentrations of the active ingredient fluridone up to 150 ppb are allowed in potable water sources; however, in lakes and reservoirs or other sources of potable water, do not apply Sonar H4C at application rates greater than 20 ppb within one-fourth (¼) mile (1,320 feet) of any functioning potable water intake. At application rates of 8-20 ppb, Sonar H4C may be applied where functioning potable water intakes are present. **NOTE: Existing potable water intakes which are no longer in use, such as those replaced by connections to potable water wells or a municipal water system, are not considered to be functioning potable water intakes.**
- **Irrigation:** For tobacco, tomatoes, peppers or other plants within the Solanaceae Family and newly seeded crops or newly seeded grasses such as overseeded golf course greens, do not use Sonar H4C treated water if concentrations are greater than 5 ppb; furthermore, when rotating crops, do not plant members of the Solanaceae family in land that has been previously irrigated with fluridone concentrations in excess of 5 ppb without consultation with a SePRO Aquatic Specialist. It is recommended that a SePRO Aquatic Specialist be consulted prior to commencing irrigation of these sites.

Use Precautions

- **Irrigation:** Irrigation with Sonar H4C treated water may result in injury to the irrigated vegetation. Follow these precautions and inform those who irrigate from areas treated with Sonar H4C of the irrigation time frames or FastEST requirements presented in the table

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below. These time frames and FastEST recommendations are suggestions which should be followed to reduce the potential for injury to vegetation irrigated with water treated with Sonar H4C. Greater potential for crop injury occurs where Sonar H4C treated water is applied to crops grown on low organic and sandy soils.

Application Site	Days After Application		
	Established Tree Crops	Established Row Crops/ Turf/Plants	Newly Seeded Crops/Seedbeds or Areas to be Planted Including Overseeded Golf Course Greens
Ponds and Static Canals [†]	7	30	FastEST required
Canals	7	7	FastEST required
Rivers	7	7	FastEST required
Lakes and Reservoirs ^{††}	7	7	FastEST required

[†] For purposes of Sonar H4C labeling, a pond is defined as a body of water 10 acres or less in size. A lake or reservoir is greater than 10 acres.

^{††} In lakes and reservoirs where one-half or greater of the body of water is treated, use the pond and static canal irrigation precautions.

Where the use of Sonar H4C treated water is desired for irrigating crops prior to the time frames established above, the use of a FastEST is recommended to measure the concentration in the treated water. Where a FastEST has determined that concentrations are less than 10 parts per billion, there are no irrigation precautions for irrigating established tree crops, established row crops or turf.

PLANT CONTROL INFORMATION

Sonar H4C selectivity is dependent upon dosage, time of year, stage of growth, method of application, and water movement. The following categories, controlled, partially controlled, and not controlled are provided to describe expected efficacy under ideal treatment conditions using higher to maximum label rates. Use of lower rates will increase selectivity of some species listed as controlled or partially controlled. Additional aquatic plants may be controlled, partially controlled, or tolerant to Sonar H4C. It is recommended to consult a SePRO Aquatic Specialist prior to application of Sonar H4C to determine a plant's susceptibility to Sonar H4C.

Vascular Aquatic Plants Controlled by Sonar H4C: ¹

Submersed Plants:

bladderwort (*Utricularia* spp.)
 common coontail (*Ceratophyllum demersum*) [†]
 common Elodea (*Elodea canadensis*) [†]
 egeria, Brazilian Elodea (*Egeria densa*)
 fanwort, Cabomba (*Cabomba caroliniana*)
 hydrilla (*Hydrilla verticillata*)
 naiad (*Najas* spp.) [†]
 pondweed (*Potamogeton* spp., except Illinois pondweed) [†]
 watermilfoil (*Myriophyllum* spp. except variable-leaf milfoil)

Shoreline Grasses:

paragrass (*Urochloa mutica*)

¹ Species denoted by a dagger (†) are native plants that are often tolerant to fluridone at lower use rates. Please consult a SePRO Aquatic Specialist for recommended Sonar H4C use rates (not to exceed maximum labeled rates) when selective control of exotic species is desired.

Vascular Aquatic Plants Partially Controlled by Sonar H4C:

Submersed Plants:

Illinois pondweed (*Potamogeton illinoensis*)

limnophila (*Limnophila sessiliflora*)

tapegrass, American eelgrass (*Vallisneria americana*)

watermilfoil--variable-leaf (*Myriophyllum heterophyllum*)

Emerald Plants:

alligatorweed (*Alternanthera philoxeroides*)

American lotus (*Nelumbo lutea*)

cattail (*Typha* spp.)

creeping waterprimrose (*Ludwigia peploides*)

parrotfeather (*Myriophyllum aquaticum*)

smartweed (*Polygonum* spp.)

spatterdock (*Nuphar luteum*)

spikerush (*Eleocharis* spp.)

waterlily (*Nymphaea* spp.)

waterpurslane (*Ludwigia palustris*)

watershield (*Brasenia schreberi*)

Floating Plants:

Salvinia (*Salvinia* spp.)

Shoreline Grasses:

barnyardgrass (*Echinochloa crusgalli*)

giant cutgrass (*Zizaniopsis miliacea*)

reed canarygrass (*Phalaris arundinacea*)

southern watergrass (*Hydrochloa carolinensis*)

torpedograss (*Panicum repens*)

Vascular Aquatic Plants Not Controlled by Sonar H4C:

Emerald Plants:

American frogbit (*Limnobium spongia*)

arrowhead (*Sagittaria* spp.)

bacopa (*Bacopa* spp.)

big floatingheart, banana lily (*Nymphoides aquatica*)

bulrush (*Scirpus* spp.)

pickerelweed, lanceleaf (*Pontederia* spp.)

rush (*Juncus* spp.)

water pennywort (*Hydrocotyle* spp.)

Floating Plants:

floating waterhyacinth (*Eichhornia crassipes*)

waterlettuce (*Pistia stratiotes*)

Shoreline Grasses:

maiden cane (*Panicum hemitomon*)

NOTE: algae (chara, nitella, and filamentous species) are not controlled by Sonar H4C

APPLICATION DIRECTIONS

The aquatic plants present in the treatment site should be identified prior to application to determine their susceptibility to Sonar H4C. It is important to determine the area (acres) to be treated and the average depth in order to select the proper application rate. Do not exceed the maximum labeled rate for a given treatment site per annual growth cycle.

Application to Ponds

Sonar H4C may be applied to the entire surface area of a pond. For single applications, rates may be selected to provide 45 to 90 ppb to the treated water, although actual concentrations in treated water may be substantially lower at any point in time due to the slow-release formulation of this product. When treating for optimum selective control, lower rates may be applied for sensitive target species. Use the higher rate within the rate range where there is a dense weed mass, when treating more difficult to control species, and for ponds less than 5 acres in size with an average depth less than 4 feet. Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the *Application Rate Calculation—Ponds, Lakes and Reservoirs* section of this label. Split or multiple applications may be used where dilution of treated water is anticipated; however, the sum of all applications should total 45 to 90 ppb and must not exceed a total of 90 ppb per annual growth cycle.

Average Water Depth of Treatment Site (feet)	Pounds of Sonar H4C per Treated Surface Acre	
	45 ppb	90 ppb
1	4.5	9
2	9	18
3	13.5	27
4	18	36
5	22.5	45
6	27	54
7	31.5	63
8	36	72
9	40.5	81
10	45	90

Application to Lakes and Reservoirs

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The following treatments may be used for treating both whole lakes or reservoirs and partial areas of lakes or reservoirs (bays, etc.). For best results in treating partial lakes and reservoirs, Sonar H4C treatment areas should be a minimum of 5 acres in size. Treatment of areas smaller than 5 acres or treatment of narrow strips such as boat lanes or shorelines may not produce satisfactory results due to dilution by untreated water. Rate ranges are provided as a guide to include a wide range of environmental factors, such as target species, plant susceptibility, selectivity and other aquatic plant management objectives. Application rates and methods should be selected to meet the specific lake/reservoir aquatic plant management goals.

A. Whole Lake or Reservoir Treatments (Limited or No Water Discharge)

Single Application to Whole Lakes or Reservoirs

Where single applications to whole lakes or reservoirs are desired, apply Sonar H4C at an application rate not to exceed 90 ppb, and in a suggested range of 16 to 90 ppb. Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the *Application Rate Calculation—Ponds, Lakes and Reservoirs* section of this label. Choose an application rate not to exceed 90 ppb to meet the aquatic plant management objective. **Where greater plant selectivity is desired such as when controlling Eurasian watermilfoil and curlyleaf pondweed, choose an application rate lower in the rate range.** For other plant species, SePRO recommends contacting a SePRO Aquatic Specialist in determining when to choose application rates lower in the rate range to meet specific plant management goals. Use the higher rate within the rate range where there is a dense weed mass or when treating more difficult to control plant species or in the event of a heavy rainfall event where dilution has occurred. In these cases, a second application or more may be required; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Refer to the section of this label entitled, *Split or Multiple Applications to Whole Lakes or Reservoirs*, for guidelines and maximum rate allowed.

Average Water Depth of Treatment Site (feet)	Pounds of Sonar H4C Per Treated Surface Acre	
	16 ppb	90 ppb
1	1.6	9
2	3.2	18
3	4.8	27
4	6.4	36
5	8	45
6	9.6	54
7	11.2	63
8	12.8	72
9	14.4	81
10	16	90
11	17.6	99
12	19.2	108
13	20.8	117
14	22.4	126
15	24	135

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16	25.6	144
17	27.2	153
18	28.8	162
19	30.4	171
20	32	180

Split or Multiple Applications to Whole Lakes or Reservoirs

To meet certain plant management objectives, split or multiple applications may be desired in making whole lake treatments. Split or multiple application programs are desirable when the objective is to use the minimum effective dose and to maintain this lower dose for the sufficient time to ensure efficacy and enhance selectivity. Under these situations, use the lower rates within the rate range. **In controlling Eurasian watermilfoil and curlyleaf pondweed and where greater plant selectivity is desired, choose an application rate lower in the rate range.** For other plant species, SePRO recommends contacting a SePRO Aquatic Specialist in determining when to choose application rates lower in the rate range to meet specific plant management goals. For split or repeated applications, the sum of all applications must not exceed 150 ppb per annual growth cycle.

NOTE: In treating lakes or reservoirs that contain potable water intakes and when the application requires treating within ¼ mile of a potable water intake, no single application can exceed 20 ppb. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

B. Partial Lake or Reservoir Treatments

Where dilution of Sonar H4C with untreated water is anticipated, such as in partial lake or reservoir treatments, split or multiple applications may be used to extend the contact time to the target plants. The application rate and use frequency of Sonar H4C in a partial lake is highly dependent upon the treatment area. An application rate at the higher end of the specified rate range may be required and frequency of applications will vary depending upon the potential of untreated water diluting the Sonar H4C concentration in the treatment area. Use a rate at the higher end of the rate range where greater dilution with untreated water is anticipated.

Application Sites Greater Than ¼ Mile from a Functioning Potable Water Intake

For single applications, apply Sonar H4C at application rates not to exceed 150 ppb, and in a suggested range of 45 to 150 ppb. Split or multiple applications may be made; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Split applications should be conducted to maintain a sufficient concentration in the target area for a period of 45 days or longer. The use of a FastEST is recommended to maintain the desired concentration in the target area over time.

Application Sites within ¼ Mile of a Functioning Potable Water Intake

In treatment areas that are within ¼ mile of a potable water intake, no single application can exceed 20 ppb. When utilizing split or repeated applications of Sonar H4C for sites which contain a potable water intake, a FastEST is required to determine the actual concentration in the water. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

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Application Rate Calculation — Ponds, Lakes and Reservoirs

The amount of Sonar H4C to be applied to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

$$\text{Pounds of Sonar H4C required per treated acre} = \text{Average water depth of treatment site} \\ \times \text{Desired ppb concentration of active ingredient} \times 0.1$$

For example, the pounds per acre of Sonar H4C required to provide a concentration of 25 ppb of active ingredient in water with an average depth of 5 feet is calculated as follows:

$$5 \times 25 \times 0.1 = 12.5 \text{ pounds per treated surface acre.}$$

NOTE: Calculated rates may not exceed the maximum allowable rate in pounds per treated surface acre for the water depth listed in the application rate table for the site to be treated.

Application to Drainage Canals, Irrigation Canals and Rivers**Static Canals:**

In static drainage and irrigation canals, apply Sonar H4C at typical use rates of 37 to 74 pounds per surface acre.

Moving Water Canals and Rivers:

The performance of Sonar H4C will be enhanced by restricting or reducing water flow. In slow moving bodies of water use an application technique that maintains a concentration of 10 to 40 ppb in the applied area for typically a minimum of 45 days. Sonar H4C can be applied by split or multiple broadcast applications or by metering in the product to provide a uniform concentration of the herbicide based upon the flow pattern. The use of a FastEST is recommended to maintain the desired concentration in the target area over time.

Static or Moving Water Canals or Rivers Containing a Functioning Potable Water Intake

In treating a static or moving water canal or river which contains a functioning potable water intake, applications of Sonar H4C greater than 20 ppb must be made more than ¼ mile from a functioning potable water intake. Applications less than 20 ppb may be applied within ¼ mile from a functioning potable water intake; however, if applications of Sonar H4C are made within ¼ mile from a functioning water intake, a FastEST must be utilized to demonstrate that concentrations do not exceed 150 ppb at the potable water intake.

Application Rate Calculation — Drainage Canals, Irrigation Canals and Rivers

The amount of Sonar H4C to be applied through a metering system to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

1. Average flow rate (feet per second) x average width (ft.) x average depth (ft.) x 0.9 = CFS (cubic feet per second)
2. CFS x 1.98 = acre feet per day (water movement)
3. Acre feet per day x desired ppb x 0.1 = pounds Sonar H4C required per day.

STORAGE AND DISPOSAL

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Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

Container Handling

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity ≤ 50 pounds) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Triple rinse containers too large to shake (capacity >50 pounds) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

TERMS AND CONDITIONS OF USE

If terms of the following *Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies* are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, to the extent consistent with applicable law, use by the

buyer or any other user constitutes acceptance of the terms under *Warranty Disclaimer*, *Inherent Risks of Use*, and *Limitation of Remedies*.

WARRANTY DISCLAIMER

SePRO Corporation warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SEPRO CORPORATION MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of SePRO Corporation or the seller. To the extent consistent with applicable law, all such risks shall be assumed by buyer.

LIMITATION OF REMEDIES

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at SePRO Corporation's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

To the extent consistent with applicable law, SePRO Corporation shall not be liable for losses or damages resulting from handling or use of this product unless SePRO Corporation is promptly notified of such losses or damages in writing. In no case shall SePRO Corporation be liable for consequential or incidental damages or losses.

The terms of the *Warranty Disclaimer*, *Inherent Risks of Use* and this *Limitation of Remedies* cannot be varied by any written or verbal statements or agreements. No employee or sales agent of SePRO Corporation or the seller is authorized to vary or exceed the terms of the *Warranty Disclaimer* or this *Limitation of Remedies* in any manner.

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[Base label for all containers]



Sonar® H4C

AQUATIC HERBICIDE

Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone 2.7%

Other Ingredients 97.3%

TOTAL 100.0%

Contains 0.027 lbs active ingredient per pound.

Keep Out of Reach of Children

CAUTION / PRECAUCIÓN

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wear long sleeved shirt, long pants, shoes and socks.

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053 .	

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ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Trees and shrubs growing in water treated with Sonar H4C may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

Container Handling

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Refillable Container. Refill this container with pesticide only. DO NOT reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

See attached booklet for complete container disposal directions including triple rinsing and pressure rinsing instructions.

Refer to the inside of the label booklet for additional precautionary information and directions for use.

NOTICE: Read the entire label before using. Use only according to label directions. Before buying or using this product, read *Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies* inside label booklet.

EPA Reg. No. 67690-XX
FPL20130422

EPA Est. No. _____
[SPC -] _____

SePRO Corporation • 11550 N. Meridian Street, Suite 600 • Carmel, IN 46032, U.S.A.

Net contents _____
[Refillable/Nonrefillable container _____]

Sonar[®] H4C

AQUATIC HERBICIDE

EPA Reg. No. 67690-XX

FPL20130422 Highlighted

Registration Notes: Based on EPA-Stamped label of Sonar SRP dated 26 April 2012 (FPL20120413), EPA submitted label with FPL20120604 and EPA comments of 17 & 19 April 2013.

Label Notes:

General Label notes:

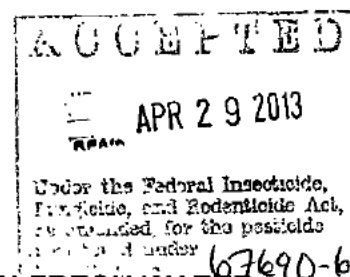
1. New label based on Sonar SRP label.

[Front of label booklet, ALL containers]

Sonar® H4C

AQUATIC HERBICIDE

AN HERBICIDE FOR MANAGEMENT OF AQUATIC VEGETATION IN FRESH WATER PONDS, LAKES, RESERVOIRS (INCLUDING INLETS AND TRIBUTARIES), POTABLE WATER SOURCES, DRAINAGE CANALS, IRRIGATION CANALS AND RIVERS.



Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone 2.7%

Other Ingredients 97.3%

TOTAL 100.0%

Contains 0.027 lb active ingredient per pound.

Keep Out of Reach of Children

CAUTION / PRECAUCIÓN

Refer to inside of label booklet for additional precautionary information and Directions for Use including First Aid and Storage and Disposal.

NOTICE: Read the entire label before using. Use only according to label directions. Before buying or using this product, read *Terms and Conditions of Use*, *Warranty Disclaimer*, *Inherent Risks of Use* and *Limitation of Remedies* inside label booklet.

FIRST AID	
<u>If swallowed</u>	<ul style="list-style-type: none"> • <u>Call a poison control center or doctor immediately for treatment advice.</u> • <u>Have person sip a glass of water if able to swallow.</u> • <u>Do not induce vomiting unless told to do so by a poison control center or doctor.</u> • <u>Do not give anything by mouth to an unconscious person.</u>
<u>If on skin or clothing</u>	<ul style="list-style-type: none"> • <u>Take off contaminated clothing.</u> • <u>Rinse skin immediately with plenty of water for 15 to 20 minutes.</u> • <u>Call a poison control center or doctor for treatment advice.</u>
<u>If inhaled</u>	<ul style="list-style-type: none"> • <u>Move person to fresh air.</u> • <u>If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible.</u> • <u>Call a poison control center or doctor for further treatment advice.</u>
<u>If in eyes</u>	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center for treatment advice.

If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth to mouth, if possible. • Call a poison control center or doctor for further treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053.	

EPA Reg. No. 67690-XX

FPL2013042220604

EPA Est. No. _____

[SPC -] _____

SePRO Corporation • 11550 N. Meridian Street, Suite 600 • Carmel, IN 46032, U.S.A.

Aquatic Herbicide

Net contents _____

[Refillable/Nonrefillable container _____]

[Label booklet text, ALL containers]**PRECAUTIONARY STATEMENTS****HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION. Harmful if swallowed, Harmful if absorbed through skin, or Harmful if inhaled. Causes moderate eye irritation. Avoid breathing of dust or contact with skin, eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Wear long sleeved shirt, long pants, shoes and socks.

KEEP OUT OF REACH OF CHILDREN

CAUTION/PRECAUCIÓN

FIRST AID	
If swallowed	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
If on skin or Clothing	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. Call a poison control center for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
If inhaled	<ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053.	

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USER SAFETY RECOMMENDATIONS

- wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Trees and shrubs growing in water treated with Sonar H4C may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read all Directions Carefully Before Applying Sonar H4C.

PRODUCT INFORMATION

Sonar H4C herbicide is a selective systemic aquatic herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs (including inlets and tributaries), drainage canals, irrigation canals, and rivers. Sonar H4C is a pelleted formulation containing 2.7% *fluridone* designed to provide enhanced numbers of pellets (greater coverage) in treated areas versus other Sonar pellet formulations at equivalent herbicide dosing. This higher density of pellets has the potential to improve herbicide contact with target vegetation in higher exchange treatment scenarios such as spot or small-partial application designs. Sonar H4C is absorbed from water by plant shoots and from hydrosol by the roots of aquatic vascular plants. It is important to maintain Sonar H4C in contact with the target plants for as long as possible. Rapid water movement or any condition which results in rapid dilution of Sonar H4C in treated water will reduce its effectiveness. In susceptible plants, Sonar H4C inhibits the formation of carotene. In the absence of carotene, chlorophyll is rapidly degraded by sunlight.

Herbicidal symptoms of Sonar H4C appear in seven to ten days and appear as white (chlorotic) or pink growing points. Under optimum conditions, 30 to 90 days are required before the desired level of aquatic weed management is achieved with Sonar H4C. Species susceptibility to Sonar H4C may vary depending on time of year, stage of growth and water movement. For best results, apply Sonar H4C prior to initiation of weed growth or when weeds begin active growth. Application to mature target plants may require an application rate at the higher end of the specified rate range and may take longer to control.

Sonar H4C is not corrosive to application equipment.

The label provides recommendations on the use of a chemical analysis for the active ingredient. SePRO Corporation recommends the use of a High-Performance Liquid Chromatography (HPLC) for the determination of the active ingredient concentration in the

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water. Contact SePRO Corporation to incorporate this test, known as a FastEST, into your treatment program. Other proven chemical analyses for the active ingredient may also be used. The FastEST is referenced in this label as the preferred method for the rapid determination of the concentration of the active ingredient in the water.

Application rates are provided in pounds of Sonar H4C to achieve a desired concentration of the active ingredient in parts per billion (ppb). **The maximum application rate or sum of all application rates is 90 ppb in ponds (< 10 Acres) and 150 ppb in lakes and reservoirs per annual growth cycle.** This maximum concentration is the amount of product calculated as the target application rate, NOT determined by testing the concentrations of the active ingredient in the treated water.

Use Restrictions

- **Obtain Required Permits:** Consult with appropriate state or local water authorities before applying this product. Permits may be required by state or local public agencies.
- **New York State:** Application of Sonar H4C is not permitted in waters less than two (2) feet deep, except as permitted under FIFRA Section 24(c). Special Local Need registration.
- **Hydroponic Farming:** Do not use Sonar H4C treated water for hydroponic farming unless a FastEST has been run and confirmed that concentrations are less than 1 ppb.
- **Greenhouse and Nursery Plants:** Consult with SePRO Corporation for site-specific recommendations prior to any use of Sonar H4C treated water for irrigating greenhouse or nursery plants. Without site-specific guidance from SePRO, do not use Sonar H4C treated water for irrigating greenhouse or nursery plants unless a FastEST has been run and confirmed that concentrations are less than 1 ppb.

Water Use Restrictions Following Applications With Sonar H4C (Days)

<u>Application Rate</u>	<u>Drinking</u>	<u>Fishing</u>	<u>Swimming</u>	<u>Livestock/Pet Consumption</u>	<u>Irrigation^{††}</u>
<u>Maximum Rate (150 ppb) or less</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>See irrigation instructions below</u>

[†] Note below, under *Potable Water Intakes*, the information for application of Sonar H4C within ¼ miles (1,320) feet of a functioning potable water intake.

^{††} Note below, under *Irrigation*, specific time frames or fluridone concentrations that provide the widest safety margin for irrigating with fluridone treated water.

- **Potable Water Intakes:** Concentrations of the active ingredient fluridone up to 150 ppb are allowed in potable water sources; however, in lakes and reservoirs or other sources of potable water, do not apply Sonar H4C at application rates greater than 20 ppb within one-fourth (¼) mile (1,320 feet) of any functioning potable water intake. At application rates of 8-20 ppb, Sonar H4C may be applied where functioning potable water intakes are present. **NOTE: Existing potable water intakes which are no longer in use, such as those replaced by connections to potable water wells or a municipal water system, are not considered to be functioning potable water intakes.**

- Irrigation: For tobacco, tomatoes, peppers or other plants within the Solanaceae Family and newly seeded crops or newly seeded grasses such as overseeded golf course greens, do not use Sonar H4C treated water if concentrations are greater than 5 ppb; furthermore, when rotating crops, do not plant members of the Solanaceae family in land that has been previously irrigated with fluridone concentrations in excess of 5 ppb without consultation with a SePRO Aquatic Specialist. It is recommended that a SePRO Aquatic Specialist be consulted prior to commencing irrigation of these sites.

Use Precautions and Restrictions

- ~~Obtain Required Permits: Consult with appropriate state or local water authorities before applying this product. Permits may be required by state or local public agencies.~~
- ~~New York State: Application of Sonar H4C is not permitted in waters less than two (2) feet deep, except as permitted under FIFRA Section 24(c), Special Local Need registration.~~
- ~~Hydroponic Farming: Do not use Sonar H4C treated water for hydroponic farming unless a FastEST has been run and confirmed that concentrations are less than 1 ppb.~~
- ~~Greenhouse and Nursery Plants: Consult with SePRO Corporation for site specific recommendations prior to any use of Sonar H4C treated water for irrigating greenhouse or nursery plants. Without site specific guidance from SePRO, do not use Sonar H4C treated water for irrigating greenhouse or nursery plants unless a FastEST has been run and confirmed that concentrations are less than 1 ppb.~~

Water Use Restrictions Following Applications With Sonar H4C (Days)

Application Rate	Drinking	Fishing	Swimming	Livestock/Pet Consumption	Irrigation
Maximum Rate (150 ppb) or less	0	0	0	0	See irrigation instructions below

[†] Note below, under *Potable Water Intakes*, the information for application of Sonar H4C within $\frac{1}{4}$ miles (1,320) feet of a functioning potable water intake.

^{††} Note below, under *Irrigation*, specific time frames or fluridone concentrations that provide the widest safety margin for irrigating with fluridone treated water.

- ~~Potable Water Intakes: Concentrations of the active ingredient fluridone up to 150 ppb are allowed in potable water sources; however, in lakes and reservoirs or other sources of potable water, do not apply Sonar H4C at application rates greater than 20 ppb within one-fourth ($\frac{1}{4}$) mile (1,320 feet) of any functioning potable water intake. At application rates of 8-20 ppb, Sonar H4C may be applied where functioning potable water intakes are present. NOTE: Existing potable water intakes which are no longer in use, such as those replaced by connections to potable water wells or a municipal water system, are not considered to be functioning potable water intakes.~~
- ~~Irrigation: Irrigation with Sonar H4C treated water may result in injury to the irrigated vegetation. Follow these precautions and inform those who irrigate from areas treated with Sonar H4C of the irrigation time frames or FastEST requirements presented in the table below. These time frames and FastEST recommendations are suggestions which should~~

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be followed to reduce the potential for injury to vegetation irrigated with water treated with Sonar H4C. Greater potential for crop injury occurs where Sonar H4C treated water is applied to crops grown on low organic and sandy soils.

Application Site	Days After Application		
	Established Tree Crops	Established Row Crops/ Turf/Plants	Newly Seeded Crops/Seedbeds or Areas to be Planted Including Overseeded Golf Course Greens
Ponds and Static Canals [†]	7	30	FastEST required
Canals	7	7	FastEST required
Rivers	7	7	FastEST required
Lakes and Reservoirs ^{††}	7	7	FastEST required

[†] For purposes of Sonar H4C labeling, a pond is defined as a body of water 10 acres or less in size. A lake or reservoir is greater than 10 acres.

^{††} In lakes and reservoirs where one-half or greater of the body of water is treated, use the pond and static canal irrigation precautions.

Where the use of Sonar H4C treated water is desired for irrigating crops prior to the time frames established above, the use of a FastEST is recommended to measure the concentration in the treated water. Where a FastEST has determined that concentrations are less than 10 parts per billion, there are no irrigation precautions for irrigating established tree crops, established row crops or turf. ~~For tobacco, tomatoes, peppers or other plants within the Solanaceae Family and newly seeded crops or newly seeded grasses such as overseeded golf course greens, do not use Sonar H4C treated water if concentrations are greater than 5 ppb; furthermore, when rotating crops, do not plant members of the Solanaceae family in land that has been previously irrigated with fluridone concentrations in excess of 5 ppb without consultation with a SePRO Aquatic Specialist. It is recommended that a SePRO Aquatic Specialist be consulted prior to commencing irrigation of these sites.~~

PLANT CONTROL INFORMATION

Sonar H4C selectivity is dependent upon dosage, time of year, stage of growth, method of application, and water movement. The following categories, controlled, partially controlled, and not controlled are provided to describe expected efficacy under ideal treatment conditions using higher to maximum label rates. Use of lower rates will increase selectivity of some species listed as controlled or partially controlled. Additional aquatic plants may be controlled, partially controlled, or tolerant to Sonar H4C. It is recommended to consult a SePRO Aquatic Specialist prior to application of Sonar H4C to determine a plant's susceptibility to Sonar H4C.

Vascular Aquatic Plants Controlled by Sonar H4C: ¹

Submersed Plants:

bladderwort (*Utricularia* spp.)

common coontail (*Ceratophyllum demersum*) [†]

common Elodea (*Elodea canadensis*) [†]

egeria, Brazilian Elodea (*Egeria densa*)

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fanwort, Cabomba (*Cabomba caroliniana*)
 hydrilla (*Hydrilla verticillata*)
 naiad (*Najas* spp.)[†]
 pondweed (*Potamogeton* spp., except Illinois pondweed)[†]
 watermilfoil (*Myriophyllum* spp. except variable-leaf milfoil)

Shoreline Grasses:

paragrass (*Urochloa mutica*)

[†] Species denoted by a dagger (†) are native plants that are often tolerant to fluridone at lower use rates. Please consult a SePRO Aquatic Specialist for recommended Sonar H4C use rates (not to exceed maximum labeled rates) when selective control of exotic species is desired.

Vascular Aquatic Plants Partially Controlled by Sonar H4C:

Submersed Plants:

Illinois pondweed (*Potamogeton illinoensis*)
 limnophila (*Limnophila sessiliflora*)
 tapegrass, American eelgrass (*Vallisneria americana*)
 watermilfoil--variable-leaf (*Myriophyllum heterophyllum*)

Emerald Plants:

alligatorweed (*Alternanthera philoxeroides*)
 American lotus (*Nelumbo lutea*)
 cattail (*Typha* spp.)
 creeping waterprimrose (*Ludwigia peploides*)
 parrotfeather (*Myriophyllum aquaticum*)
 smartweed (*Polygonum* spp.)
 spatterdock (*Nuphar luteum*)
 spikerush (*Eleocharis* spp.)
 waterlily (*Nymphaea* spp.)
 waterpurslane (*Ludwigia palustris*)
 watershield (*Brasenia schreberi*)

Floating Plants:

Salvinia (*Salvinia* spp.)

Shoreline Grasses:

barnyardgrass (*Echinochloa crusgalli*)
 giant cutgrass (*Zizaniopsis miliacea*)
 reed canarygrass (*Phalaris arundinaceae*)
 southern watergrass (*Hydrochloa caroliniensis*)
 torpedograss (*Panicum repens*)

Vascular Aquatic Plants Not Controlled by Sonar H4C:

Emerald Plants:

American frogbit (*Limnobium spongia*)

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arrowhead (*Sagittaria* spp.)
 bacopa (*Bacopa* spp.)
 big floatingheart, banana lily (*Nymphoides aquatica*)
 bulrush (*Scirpus* spp.)
 pickerelweed, lanceleaf (*Pontederia* spp.)
 rush (*Juncus* spp.)
 water pennywort (*Hydrocotyle* spp.)

Floating Plants:

floating waterhyacinth (*Eichhornia crassipes*)
 waterlettuce (*Pistia stratiotes*)

Shoreline Grasses:

maidencane (*Panicum hemitomon*)

NOTE: algae (chara, nitella, and filamentous species) are not controlled by Sonar H4C

APPLICATION DIRECTIONS

The aquatic plants present in the treatment site should be identified prior to application to determine their susceptibility to Sonar H4C. It is important to determine the area (acres) to be treated and the average depth in order to select the proper application rate. Do not exceed the maximum labeled rate for a given treatment site per annual growth cycle.

Application to Ponds

Sonar H4C may be applied to the entire surface area of a pond. For single applications, rates may be selected to provide 45 to 90 ppb to the treated water, although actual concentrations in treated water may be substantially lower at any point in time due to the slow-release formulation of this product. When treating for optimum selective control, lower rates may be applied for sensitive target species. Use the higher rate within the rate range where there is a dense weed mass, when treating more difficult to control species, and for ponds less than 5 acres in size with an average depth less than 4 feet. Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the *Application Rate Calculation—Ponds, Lakes and Reservoirs* section of this label. Split or multiple applications may be used where dilution of treated water is anticipated; however, the sum of all applications should total 45 to 90 ppb and must not exceed a total of 90 ppb per annual growth cycle.

Average Water Depth of Treatment Site (feet)	Pounds of Sonar H4C per Treated Surface Acre	
	45 ppb	90 ppb
1	4.5	9
2	9	18
3	13.5	27
4	18	36
5	22.5	45
6	27	54
7	31.5	63

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8	36	72
9	40.5	81
10	45	90

Application to Lakes and Reservoirs

The following treatments may be used for treating both whole lakes or reservoirs and partial areas of lakes or reservoirs (bays, etc.). For best results in treating partial lakes and reservoirs, Sonar H4C treatment areas should be a minimum of 5 acres in size. Treatment of areas smaller than 5 acres or treatment of narrow strips such as boat lanes or shorelines may not produce satisfactory results due to dilution by untreated water. Rate ranges are provided as a guide to include a wide range of environmental factors, such as target species, plant susceptibility, selectivity and other aquatic plant management objectives. Application rates and methods should be selected to meet the specific lake/reservoir aquatic plant management goals.

A. Whole Lake or Reservoir Treatments (Limited or No Water Discharge)

Single Application to Whole Lakes or Reservoirs

Where single applications to whole lakes or reservoirs are desired, apply Sonar H4C at an application rate not to exceed 90 ppb, and in a suggested range of 16 to 90 ppb.

Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the *Application Rate Calculation—Ponds, Lakes and Reservoirs* section of this label. Choose an application rate not to exceed 90 ppb to meet the aquatic plant management objective. **Where greater plant selectivity is desired such as when controlling Eurasian watermilfoil and curlyleaf pondweed, choose an application rate lower in the rate range.** For other plant species, SePRO recommends contacting a SePRO Aquatic Specialist in determining when to choose application rates lower in the rate range to meet specific plant management goals. Use the higher rate within the rate range where there is a dense weed mass or when treating more difficult to control plant species or in the event of a heavy rainfall event where dilution has occurred. In these cases, a second application or more may be required; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Refer to the section of this label entitled, *Split or Multiple Applications to Whole Lakes or Reservoirs*, for guidelines and maximum rate allowed.

Average Water Depth of Treatment Site (feet)	Pounds of Sonar H4C Per Treated Surface Acre	
	16 ppb	90 ppb
1	1.6	9
2	3.2	18
3	4.8	27
4	6.4	36
5	8	45
6	9.6	54
7	11.2	63
8	12.8	72
9	14.4	81

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10	16	90
11	17.6	99
12	19.2	108
13	20.8	117
14	22.4	126
15	24	135
16	25.6	144
17	27.2	153
18	28.8	162
19	30.4	171
20	32	180

Split or Multiple Applications to Whole Lakes or Reservoirs

To meet certain plant management objectives, split or multiple applications may be desired in making whole lake treatments. Split or multiple application programs are desirable when the objective is to use the minimum effective dose and to maintain this lower dose for the sufficient time to ensure efficacy and enhance selectivity. Under these situations, use the lower rates within the rate range. **In controlling Eurasian watermilfoil and curlyleaf pondweed and where greater plant selectivity is desired, choose an application rate lower in the rate range.** For other plant species, SePRO recommends contacting a SePRO Aquatic Specialist in determining when to choose application rates lower in the rate range to meet specific plant management goals. For split or repeated applications, the sum of all applications must not exceed 150 ppb per annual growth cycle.

NOTE: In treating lakes or reservoirs that contain potable water intakes and when the application requires treating within ¼ mile of a potable water intake, no single application can exceed 20 ppb. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

B. Partial Lake or Reservoir Treatments

Where dilution of Sonar H4C with untreated water is anticipated, such as in partial lake or reservoir treatments, split or multiple applications may be used to extend the contact time to the target plants. The application rate and use frequency of Sonar H4C in a partial lake is highly dependent upon the treatment area. An application rate at the higher end of the specified rate range may be required and frequency of applications will vary depending upon the potential of untreated water diluting the Sonar H4C concentration in the treatment area. Use a rate at the higher end of the rate range where greater dilution with untreated water is anticipated.

Application Sites Greater Than ¼ Mile from a Functioning Potable Water Intake

For single applications, apply Sonar H4C at application rates not to exceed 150 ppb, and in a suggested range of 45 to 150 ppb. Split or multiple applications may be made; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Split applications should be conducted to maintain a sufficient concentration in the target area for a period of 45 days or longer. The use of a FastEST is recommended to maintain the desired concentration in the target area over time.

Application Sites within ¼ Mile of a Functioning Potable Water Intake

In treatment areas that are within ¼ mile of a potable water intake, no single application can exceed 20 ppb. When utilizing split or repeated applications of Sonar H4C for sites which contain a potable water intake, a FastEST is required to determine the actual concentration in the water. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

Application Rate Calculation — Ponds, Lakes and Reservoirs

The amount of Sonar H4C to be applied to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

$$\text{Pounds of Sonar H4C required per treated acre} = \text{Average water depth of treatment site} \\ \times \text{Desired ppb concentration of active ingredient} \times 0.1$$

For example, the pounds per acre of Sonar H4C required to provide a concentration of 25 ppb of active ingredient in water with an average depth of 5 feet is calculated as follows:

$$5 \times 25 \times 0.1 = 12.5 \text{ pounds per treated surface acre.}$$

NOTE: Calculated rates may not exceed the maximum allowable rate in pounds per treated surface acre for the water depth listed in the application rate table for the site to be treated.

Application to Drainage Canals, Irrigation Canals and Rivers**Static Canals:**

In static drainage and irrigation canals, apply Sonar H4C at typical use rates of 37 to 74 pounds per surface acre.

Moving Water Canals and Rivers:

The performance of Sonar H4C will be enhanced by restricting or reducing water flow. In slow moving bodies of water use an application technique that maintains a concentration of 10 to 40 ppb in the applied area for typically a minimum of 45 days. Sonar H4C can be applied by split or multiple broadcast applications or by metering in the product to provide a uniform concentration of the herbicide based upon the flow pattern. The use of a FastEST is recommended to maintain the desired concentration in the target area over time.

Static or Moving Water Canals or Rivers Containing a Functioning Potable Water Intake

In treating a static or moving water canal or river which contains a functioning potable water intake, applications of Sonar H4C greater than 20 ppb must be made more than ¼ mile from a functioning potable water intake. Applications less than 20 ppb may be applied within ¼ mile from a functioning potable water intake; however, if applications of Sonar H4C are made within ¼ mile from a functioning water intake, a FastEST must be utilized to demonstrate that concentrations do not exceed 150 ppb at the potable water intake.

Application Rate Calculation — Drainage Canals, Irrigation Canals and Rivers

The amount of Sonar H4C to be applied through a metering system to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

1. Average flow rate (feet per second) x average width (ft.) x average depth (ft.) x 0.9 = CFS (cubic feet per second)
2. CFS x 1.98 = acre feet per day (water movement)
3. Acre feet per day x desired ppb x 0.1 = pounds Sonar H4C required per day.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

Container Handling

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity ≤ 50 pounds) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Triple rinse containers too large to shake (capacity >50 pounds) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check

for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

TERMS AND CONDITIONS OF USE

If terms of the following *Warranty Disclaimer*, *Inherent Risks of Use* and *Limitation of Remedies* are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, to the extent consistent with applicable law, use by the buyer or any other user constitutes acceptance of the terms under *Warranty Disclaimer*, *Inherent Risks of Use*, and *Limitation of Remedies*.

WARRANTY DISCLAIMER

SePRO Corporation warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SEPRO CORPORATION MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of SePRO Corporation or the seller. To the extent consistent with applicable law, all such risks shall be assumed by buyer.

LIMITATION OF REMEDIES

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at SePRO Corporation's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

To the extent consistent with applicable law, SePRO Corporation shall not be liable for losses or damages resulting from handling or use of this product unless SePRO Corporation is promptly notified of such losses or damages in writing. In no case shall SePRO Corporation be liable for consequential or incidental damages or losses.

The terms of the *Warranty Disclaimer*, *Inherent Risks of Use* and this *Limitation of Remedies* cannot be varied by any written or verbal statements or agreements. No employee or sales agent of SePRO Corporation or the seller is authorized to vary or exceed the terms of the *Warranty Disclaimer* or this *Limitation of Remedies* in any manner.

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[Base label for all containers]



Sonar® H4C

AQUATIC HERBICIDE

Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone 2.7%

Other Ingredients 97.3%

TOTAL 100.0%

Contains 0.027 lbs active ingredient per pound.

Keep Out of Reach of Children

CAUTION / PRECAUCIÓN

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wear long sleeved shirt, long pants, shoes and socks.

CAUTION. Harmful if swallowed, absorbed through skin, or if inhaled. Avoid breathing of dust or contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

FIRST AID

<u>If swallowed</u>	<ul style="list-style-type: none"> • <u>Call a poison control center or doctor immediately for treatment advice.</u> • <u>Have person sip a glass of water if able to swallow.</u> • <u>Do not induce vomiting unless told to do so by a poison control center or doctor.</u> • <u>Do not give anything by mouth to an unconscious person.</u>
<u>If on skin or clothing</u>	<ul style="list-style-type: none"> • <u>Take off contaminated clothing.</u> • <u>Rinse skin immediately with plenty of water for 15 to 20 minutes.</u> • <u>Call a poison control center or doctor for treatment advice.</u>
<u>If inhaled</u>	<ul style="list-style-type: none"> • <u>Move person to fresh air.</u> • <u>If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible.</u> • <u>Call a poison control center or doctor for further treatment advice.</u>
<u>If in eyes</u>	<ul style="list-style-type: none"> • <u>Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</u> • <u>Call a poison control center for treatment advice.</u>

Sonar is a registered trademark of SePRO Corporation

If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call **INFOTRAC** at **1-800-535-5053**.

ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Trees and shrubs growing in water treated with Sonar H4C may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

Container Handling

Nonrefillable Container. **DO NOT** reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Refillable Container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

See attached booklet for complete container disposal directions including triple rinsing and pressure rinsing instructions.

Refer to the inside of the label booklet for additional precautionary information and directions for use.

NOTICE: Read the entire label before using. Use only according to label directions. **Before buying or using this product, read *Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies* inside label booklet.**

EPA Reg. No. 67690-XX
Sonar is a registered trademark of SePRO Corporation

EPA Est. No. _____

| FPL2013042220604

[SPC -] _____

SePRO Corporation • 11550 N. Meridian Street, Suite 600 • Carmel, IN 46032, U.S.A.

Net contents _____
[Refillable/Nonrefillable container _____]



SePRO Corporation • 11550 North Meridian Street • Suite 600 • Carmel, Indiana 46032-4565
Phone: (317) 580-8282 Fax: (317) 580-8290

- Product label (five copies)
- EPA Pesticide Registration Improvement Act Information;
- Payment Confirmation Receipt for PRIA Category R300;
- Copy of approval letter for EPA 50% Small Business Waiver Request (Dated 23 March 2012);
- Certification of continued qualification for fee waiver; and
- Three copies of supporting studies.

SePRO qualifies for a PRIA fee waiver/reduction of 50% (approved for Sonar Technical on 23 March 2012, OPP Decision Number: D-462010).

Product Chemistry waivers:

Please note that SePRO is requesting waivers for the following OCSPH Harmonized Product Properties Test Guidelines:

- 830.6315 Flammability;
- 830.6316 Explodability;
- 830.6319 Miscibility; and
- 830.6321 Dielectric Breakdown Voltage.
- 830.6317 Storage stability
- 830.6320 Corrosion characteristics

The first four data requirements listed above are conditional requirements and were not submitted because Sonar H4C does not meet any of the conditions to trigger the requirements. We are asking for the storage stability and corrosion characteristics studies to be waived due to the similarity of the product to a currently registered product.

The following is a summary response for each data requirement:

Guideline 830.6315: Flammability testing is not required for Sonar H4C because none of the components of its formulation are considered flammable/combustible. Based upon the formulation components, Sonar H4C is not considered flammable.

Guideline 830.6316: Explodability testing is not required for Sonar H4C because none of the components of its formulation are considered explodable. Based upon the formulation components, Sonar H4C is not considered explodable.

Guideline 830.6319: Miscibility testing is not required for Sonar H4C because it is not an emulsifiable liquid that required further dilution with a petroleum solvent.

Guideline 830.6321: Dielectric Breakdown Voltage testing is not required for Sonar H4C because it is not labeled for use around electrical equipment.

Guidelines 830.6317 and 830.6320: Sonar H4C differs in composition from the currently registered product Sonar SRP (EPA Reg. No. 67690-3) only in a 2.3% decrease in the ai content, which is replaced with the carrier already present at a high percentage in the registered product. We do not expect this small difference to have any effect on the storage

TRANSMITTAL DOCUMENT FOR:
SUBMISSION OF DATA FOR Sonar H4C (EPA Reg. No. 67690-xx)
20 December 2012

Data Submitter:

SePRO Corporation
11550 North Meridian Street; Suite 600
Carmel, IN 46032

Attn: Laurent C. Mézin, Ph.D.
Tel: (317) 580 8286

Signature: _____

Laurent Mézin

Guideline No.	EPA Data Requirement	Volume No.	Test Subs.	Study Title	MRID No.
ADMINISTRATIVE VOLUME					
0.ADMIN	Cover letter	1	n/a		
0.ADMIN	Transmittal Document	1	n/a		
PRODUCT CHEMISTRY					
830.1550 830.1600 830.1620 830.1650 830.1670 830.1700 830.1750 830.1800	Product Identity and Composition; Description of Materials Used to Produce the Product; Description of the Production Process; Description of the Formulation Process; Discussion of the Formation of Impurities; Preliminary Analysis; Certified Limits; and Enforcement Analytical Method	2	EP	Group A Product Chemistry: The Product Identity and Composition of the End-Use Product Sonar H4C. SePRO (9 pp + 22pp)	49026501
830.6302 830.6303 830.6304 830.6314 830.7000 830.7300	Determination of Color, Physical State, Odor, Bulk Density, pH, and Oxidation/Reduction Chemical Incompatibility	3	EP	Determination of Color, Physical State, Odor, Bulk Density, pH, and Oxidation/Reduction Chemical Incompatibility for Sonar H4C CIA Labs Study No. 120711 (24 pp)	49026502



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

FEE

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION
OFFICE OF PESTICIDE PROGRAMS REGISTRATION DIVISION (7505P)

DP BARCODE No.: D408714; FILE SYMBOL No.: 67690-AR; PRODUCT NAME: Sonar H4C; DECISION No.: 473466; PC Code(s): 112900; ACTION CODE: R300; FOOD Use: No

DATE OUT: March 1, 2013

SUBJECT: Product Chemistry Review for end use product
Product Name: Sonar H4C

FROM: Shyam Mathur,
Product Chemistry Team Leader
Technical Review Branch/RD (7505P)

S Mathur
03-01-13
JCR

TO: Grant Rowland / Kathryn Montague, RM 23
Herbicide Branch / RD (7505P)

Company Name: Sepro Corporation
Formulation Type: Aquatic Herbicide

INTRODUCTION:

The registrant has submitted an application for the registration of the new end use product "Sonar H4C". The registrant has submitted a CSF for basic formulation and four alternate CSF's #1 to #4 (all dated 12-20-2012). The registrant has submitted the supporting product chemistry data with MRID Numbers 490265-01 and 490265-02. On the advice of the Agency, the registrant submitted revised basic CSF and revised alternate CSF's #1 to #4 (all dated 12-20-2012). The registrant has claimed that the proposed product is substantially similar to a registered product with Reg. No. 67690-3. TRB has been asked to determine the acceptability of product chemistry data submitted to support the proposed basic & alternate CSF's and also determine the similarity to the cited product.

SUMMARY OF FINDINGS:

1. Name of Active Ingredient(s): Fluridone (2.70%)
2. Has the registrant claimed substantial similarity to a registered product?
[X] Yes; [] No; [] NA; if yes give the registration number of the cited product.
EPA Reg. No: 67690-3
3. All of the source materials of the active ingredient are derived from registered sources- [X] Yes; [] No
4. All inert ingredients have been screened by IIAB and found to be approved for the proposed labeled uses.
[X] Yes; [] No
5. Confidential Statement of Formula(s):
[X] Proposed Basic - Dated: 12-20-2012; Re-submitted - Dated: 12-20-2013
[X] Proposed Alternate CSF's #1 to #4 - Dated: 12-20-2012; Re-submitted - Dated: 12-20-2012
Alternate CSF(s) complies with 40CFR§152.43: [] Yes; [] No; [X] NA

DP BARCODE No.: D408714; FILE SYMBOL No.: 67690-AR; PRODUCT NAME: Sonar H4C; DECISION No.: 473466; PC Code(s): 112900; ACTION CODE: R300; FOOD Use: No

6. Product label

- a. Ingredient statement: Nominal concentration of AI listed on CSF(s) concurs with product label (PR Notice 91-2).

☒ Yes; if not, explain below:

Is the sub statement in compliance with PR Notice 97-6 (inert ingredient vs other ingredient)

☒ Yes; ☐ No; if not, explain below:

Metallic equivalent: ☐ Yes ☒ NA;

Soluble arsenic: ☐ Yes ☒ NA

Isomeric ratios: ☐ Yes ☒ NA

Acid Equivalent: ☐ Yes ☒ NA; acid equivalent =

- b. Health related sub statements: Product contains?

Petroleum distillate at > 10%: ☐ Yes ☒ No ☐ NA

Methanol at > 4%: ☐ Yes ☒ No ☐ NA

Sodium nitrate/Sodium nitrite ☐ Yes ☒ No ☐ NA

- c. Physical chemical hazard statement: Product label requires a statement per 40 CFR §156.78 for: flammability, explosive potential or electric insulator breakdown?

☐ Yes ☒ No

Is the sub statement in compliance with PR Notice 98-6 (Total Release Fogger)?

☐ Yes; ☐ No; ☒ NA; if not, explain below

- d. Label requires an additional Storage and Disposal statement: ☐ Yes ☒ No; if yes explain below:

DP BARCODE No.: D408714; FILE SYMBOL No.: 67690-AR; PRODUCT NAME: Sonar H4C; DECISION No.: 473466; PC Code(s): 112900; ACTION CODE: R300; FOOD Use: No

7. Group A:

TRB's determination of the acceptability for the proposed product is listed in the tables below.

Guideline No.	Study Title	Data submitted		TRB's Assessment of Data	MRID Nos.
		Yes	No		
830.1550	Product Identity & Composition	X		A	490265-01
830.1600	Description of materials used to produce the product	X		A	490265-01
830.1650	Description of formulation process	X		A	490265-01
830.1670	Discussion on the formation of impurities	X		A	490265-01
830.1700	Preliminary analysis				
830.1750	Certified limits (158.350)	Standard certified limits	X	A	490265-01 CSF(12-20-12)
		Proposed limits	X		
		Justification for wider limits	X		
830.1800	Enforcement analytical method	X		A	490265-01

A = Acceptance, N = Not Acceptable, G = Data Gap, W = Waiver Request, I = In Progress, NA = Not Applicable; U = Upgradeable.

8. Group B:

Guideline No.	Study Title	Value or Qualitative Description	TRB's Assessment of Data	MRID Nos.
830.6303	Physical State	Solid Pellets	A	490265-02
830.6315	Flammability	NA		490265-02
830.6316	Explosibility	NA		490265-02
830.7000	pH	5.41 @ 23°C (1% w/w solution)	A	490265-02
830.7300	Density	1.0967 gm/ml @23°C	A	490265-02

A = Acceptance, N = Not Acceptable, G = Data Gap, W = Waiver request, NA = Not applicable, I = In progress; U = Upgradeable.

830.6314: oxidation/reduction (MRID No. 490265-02)

The test substance was found to be compatible with KMnO₄, water, Zinc, Turpentine, and ammonium dihydrogen phosphate

DP BARCODE No.: D408714; FILE SYMBOL No.: 67690-AR; PRODUCT NAME: Sonar H4C; DECISION No.: 473466; PC Code(s): 112900; ACTION CODE: R300; FOOD Use: No

CONCLUSIONS:

The TRB has reviewed the product chemistry data cited to support the registration of the proposed end-use product and has concluded that:

1. The revised basic CSF & alternate CSF's #1 to #4 (all dated 12-20-2012) are acceptable. The registrant has proposed non-standard certified limits for two of the inert ingredients in formulation with proper justifications.
2. The data submitted corresponding to guidelines 830.1550 (product identity & composition), 830.1600 (description of materials used to produce the product), 830.1650 (description of the formulation process), 830.1670 (discussion on the formation of impurity), 830.1750 (certified limits) and 830.1800 (enforcement analytical method) do not satisfy the data requirements of 40CFR§158.320, 40CFR§158.325, 40CFR§158.335, 40CFR§158.340, 40CFR§158.350 and 40CFR§158.355 respectively and are acceptable.
3. The product chemistry data submitted corresponding to guidelines 830.6302 (color), 830.6303 (physical state), 830.6304 (odor), 830.6314 (oxidation/reduction), 830.6315 (flammability), 830.6316 (explosibility), 830.7000 (pH), and 830.7300 (density) are acceptable.
4. The proposed product with File Symbol No. 67690-AR was determined not to be substantially similar to the cited product with Reg. No. 67690-3 from the product chemistry point of view. Since there is significant difference in the nominal concentration of the active ingredient in the products (2.7% in proposed vs 5.0% in cited product).



SePRO Corporation • 11550 North Meridian Street • Suite 600 • Carmel, Indiana 46032-4565
Phone: (317) 580-8282 Fax: (317) 580-8290

25 February 2013

Shyam Mathur

Technical Review Branch
Registration Division
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

RE: Sonar H4C (EPA Reg. No. 67690-AR)
Submission of updated CSFs per your comments

Dear Mr. Mathur:

Per our recent conversation, I have updated the CSFs for our product currently in review, Sonar H4C (EPA File No. 67690-AR).

The following items are enclosed in support of the continued review of this product:

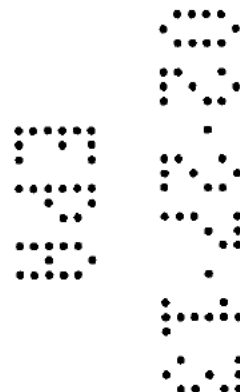
- Cover letter (this document);
- Updated CSFs (Basic and Alternates #1-4 (2 copies each);
- MSDSs for the binders and carriers, as requested.

If you have any questions regarding this submission, please contact me at (317) 580-8286 or LaurentM@sepro.com.

Sincerely,

Laurent C. Mézin
Manager, Regulatory Affairs

Enclosures



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

SIMILARITY CLINIC MEMORANDUM:

Subject: EPA Reg. No.: 67690-AR Product Name: Sonar H4C
PC Code: 112900

From: DP Barcode 408101
John L. Kough, Biologist
Microbial Pesticides Branch
Biopesticides and Pollution Prevention Division (7511P)

John L. Kough
ML 11/15/13

To: Kathryn Montague, PM 23
Herbicide Branch
Registration Division (7505P)

Applicant: SePRO Corporation
11550 North Meridian Street Suite 600
Carmel, IN 46032

FORMULATION FROM EPA Reg. No. 67690-AR LABEL:

	<u>% by wt.</u>
<u>Active Ingredient(s):</u>	
Fluridone	2.7%
<u>Inert Ingredient(s):</u>	97.3%
Total	100.0%

BACKGROUND: The registrant is citing acute toxicity studies to support the registration of their new product, EPA Reg. No. 67690-AR. The MRID's are as follows: 001033259; 00103260 (81-1), 001033259 (81-2), 41424103 (81-3), 001033259; 41424104 (81-4), 41424102 (81-5), and 00103300; 41424105 (81-6). The studies were conducted Eli Lilly Research labs for Dow Elanco. The test material used in each of the studies was Sonar SRP/5P (5% Fluridone). These studies were reviewed and found to be acceptable by HED on 8/13/84 & 9/19/90.

After reviewing the studies and the CSF's for the subject product and the product tested in the studies, the Agency will allow the registrant to cite the studies listed above to support the registration of the subject product.

RECOMMENDATIONS:

- The acute toxicity studies cited are acceptable to support the registration of 67690-AR.

Procedure Deviations:

- The oral studies done were all rated supplemental due to single dose tested -- however, the results allow a Toxicity Category to be determined.

The acute toxicity profile for EPA Reg. No. 67690-AR is currently:

Acute Oral	III	Cited
Acute Dermal	III	Cited
Acute Inhalation	III	Cited
Primary Eye	III	Cited
Primary Dermal	IV	Cited
Skin sensitization	non sensitizer	Cited

NOTE: The acute toxicity requirements have been satisfied for the subject product.

LABELING:

ID #: 67690-AR SONAR H4C

SIGNAL WORD: CAUTION

HAZARDS TO HUMANS AND DOMESTIC ANIMALS:

Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wear long sleeved shirt, long pants, shoes and socks.

FIRST AID:

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-535-5053 for emergency medical treatment information.

USER SAFETY RECOMMENDATIONS:

User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.



United States
Environmental Protection Agency
 Washington, DC 20460
Formulator's Exemption Statement
(40 CFR 152.85)

Applicant's Name and Address SePRO Corporation 11550 North Meridian Street Suite 600 Carmel, IN 46032	EPA File Symbol/Registration Number 67690-xx
	Product Name Sonar H4C
	Date of Confidential Statement of Formula (EPA Form 8570-4) 12/20/2012

As an authorized representative of the applicant for registration of the product identified above, I certify that:

(1) This product contains the following active ingredient(s):

Fluridone

(2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging another product which contains that active ingredient which is registered under FIFRA Section 3, is purchased by us from another person and meets the requirements of 40 CFR section 158.50(e)(2) or (3).

(3) Indicate by checking (A) or (B) below which paragraph applies:

☒ (A) An accurate Confidential Statement of Formula (EPA FORM 8570-4) for the above identified product is attached to this statement. That formula statement indicates, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

OR

☐ (B) The Confidential Statement of Formula (CSF)(EPA Form 8570-4) referenced above and on file with the EPA is complete, current, an accurate and contains the information required on the current CSF.

(4) The following active ingredients in this product qualify for the formulator's exemption.

Source		
Active Ingredient	Product Name	Registration Number
Fluridone	Sonar Technical	67690-6
Signature 	Name and Title Laurent Mezin; Mgr Reg. Affairs	Date 12/20/2012



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
1200 Pennsylvania Avenue, N.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, Collection Strategies Division (2822T), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the completed form to this address.

Certification with Respect to Citation of Data

Applicant's/Registrant's Name, Address, and Telephone Number SePRO Corporation, 11550 N Meridian St, Suite 600, Carmel, IN 46032 (317)580-8280	EPA Registration Number/File Symbol 67690-xx
Active Ingredient(s) and/or representative test compound(s) Fluridone	Date 12/20/2012
General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158) Aquatic outdoor	Product Name Sonar H4C

NOTE: If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

SECTION I: METHOD OF DATA SUPPORT (Check one method only)

<input type="checkbox"/> I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).	<input checked="" type="checkbox"/> I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).
--	---

SECTION II: GENERAL OFFER TO PAY

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☐ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

SECTION III: CERTIFICATION

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature

Date

12/20/12

Typed or Printed Name and Title

Laurent C. Mézin

PRIA 2 – 21 Day Content Screen Review Worksheet

(EPA/OPP Use Only)

3/23/09

21 Day Screen Start Date: 12/26/12Experts In-Processing Signature: MP Date 1/2/13Fee Paid: Yes ☒Division management contacted on issues No ☐ Yes ☐ Date _____

EPA Reg. Number: <u>67690-AA</u>		EPA Receipt Date: <u>12/26/12</u>			
Items for Review			Yes	No	N/A*
1	Application Form (EPA Form 8570-1)(link to form) signed & complete including package type		X		
2	Confidential Statement of Formula all boxes completed, form signed, and dated (EPA Form 8570-4) (Link to form)		X		
	a) All inerts (link to http://www.epa.gov/oppr001/inerts/), including fragrances, approved for the proposed uses (see Footnote A)	yes ✓	no		
3	Certification with Respect to Citation of Data (EPA Form 8570-34) (Link to form) completed and signed (N/A if 100% repack)		X		
	Certificate and data matrix consistent		✓		
	If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B)	yes	no		
	If applicable, is there a letter of Authorization for exclusive use only.				
4	Formulator's Exemption Statement (EPA Form 8570-27) (Link to form) completed and signed (N/A if source is unregistered or applicant owns the technical)		X		
5	Data Matrix (EPA Form 8570-35) (Link to form) both internal and external copies (PR 98-5) (Link to PR 98-5) completed and signed (N/A if 100% repack)		X		
	a) Selective Method (Fee category experts use)	yes ✓	no		
	b) Cite-All (Fee category experts use)				
	c) Applicant owns all data (Fee category experts use)				
6	5 Copies of Label (link to http://www.epa.gov/oppfead1/labeling/lrm/) (Electronic labels on CD are encouraged and guidance is available)(link to http://www.epa.gov/pesticides/regulating/registering/submissions/index.htm#labels)		X		

7	Is the data package consistent with PR Notice 86-5 (link to PRN 86-5)	✓		
8	Notice of Filing (link to http://www.epa.gov/pesticides/regulating/tolerance_petitions.htm) included with petitions (link to http://www.epa.gov/pesticides/regulating/tolerances.htm)			X
9	If applicable for conventional applications, reduced risk rationale (link to http://www.epa.gov/opprd001/workplan/reducedrisk.html)			X
10	Required Data (link to http://www.epa.gov/pesticides/regulating/data_requirements.htm) and/or data waivers. See Footnote C.			
	a) List study (or studies) not included with application			

Comments:

- * Studies passed PRN 1103 review.
- * Registrant was contacted 1/2/13 to choose a selective method for the certification with respect to Citation of Data form. Registrant provided the final copy on 1/3.
- * Registrant was also contacted to provide the missing 830.710 guideline for the Data matrices. Registrant provided on 1/3.
- * Inerts approved for non-food use.

Ticket passed.

em

MRID: 4910265

* N/A – Not Applicable

Footnotes

A. During the 21 day initial content review, all CSFs will be reviewed to determine whether all inerts listed, including fragrances, are approved for the proposed uses. If an unapproved inert is identified, the applicant must either 1) resolve the inert issue by, for example, removing the inert, substituting it with an approved inert, submitting documentation that EPA approved the inert for the proposed pesticidal uses, correcting mistakes on the CSF, etc. or 2) provide the data to support OPP approval of the inert or 3) withdraw the application. Removing or substituting an inert ingredient will require a new CSF and may require submission of data. All information, forms, data and documentation resolving the inert issue must have been received by the Agency or the application withdrawn within the 21 day period, otherwise, the Agency will reject the application as described below.

To successfully complete this aspect of the 21 day initial content screen, applicants are **strongly encouraged** to verify that all inert ingredients have been approved for the application's uses **even if a product is currently registered** by consulting the inert Web

site [[link to http://www.epa.gov/opprd001/inerts/lists.html](http://www.epa.gov/opprd001/inerts/lists.html)] and if the inert is not approved, to **obtain the necessary inert approval prior to submitting an application to register a pesticide product containing that inert ingredient**. Some inert ingredients are no longer approved for food uses or certain types of uses. The name and/or CAS number on a CSF must match the name and CAS number on this web site. Simple typographical errors in the name or CAS number have resulted in processing delays.

If an inert is not listed on the inert ingredient web site and the applicant believes that the inert has been approved, the applicant should contact the Inert Ingredient Assessment Branch (IIAB) at inertsbranch@epa.gov and resolve the issue. Copies of the correspondence with IIAB resolving the issue should accompany the application. All new inerts except PIP inerts are reviewed by IIAB. The IIAB should also be contacted for any questions on what supporting data needs to be submitted for and the Agency's inert review process. Questions on PIP inerts should be directed to the Chief of Microbial Pesticides Branch [[Link to http://www.epa.gov/oppbppd1/biopesticides/contacts_bppd.htm](http://www.epa.gov/oppbppd1/biopesticides/contacts_bppd.htm)].

When a brand, trade, or proprietary name of an inert ingredient is listed on a CSF, additional information such as an alternate name of the inert, CAS number or other information [[link to http://www.epa.gov/opprd001/inerts/tips.pdf](http://www.epa.gov/opprd001/inerts/tips.pdf)] must also be included to enable the Agency to determine if it has been approved. Each component of an inert mixture (including a fragrance) must be identified. In some cases, the supplier of the mixture or fragrance may need to provide this information to the Agency. Prior to the Agency's receipt of an application, applicants must arrange with a proprietary mixture or fragrance supplier to provide the component information to the Agency or promptly upon EPA's request. If the inert ingredients in a proprietary blend (including fragrances) cannot or are not identified or provided within the 21-day content review period, the Agency will reject the application.

During the 21 day content review, applicants should submit information to the individual identified by the Agency when the applicant is informed of an unapproved inert.

Unapproved Inerts Identified on CSFs

All applications except conventional new products and PIPs

Once an unapproved inert is identified on a CSF, the Agency will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Submit the information and data needed for the Agency to approve the unapproved inert. If this option is selected and implemented, the Agency may request an extension in the PRIA decision review timeframe to accommodate the inert review/approval process;

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of these options is selected and implemented by the applicant within the 21 day content review period, the Agency will reject the application and retain 25% of the full fee of the category identified.

Conventional New Product Applications

When the Registration Division identifies an unapproved inert on a CSF with an application for a new product that the applicant has not identified as requiring an inert approval (R311, R312 or R313), it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Submit the information and data needed for the Agency to approve the unapproved inert, including any required petition to establish or amend a tolerance or exemption from a tolerance. (This option may change the PRIA category for the application, which could require a longer decision review time and a larger fee. If additional fees are due, they must be received by the Agency within the 21 day content review period.)
3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21-day content-review period, the Agency will reject the application and retain 25% of the appropriate fee for the new product-inert approval category.

PIP Applications

When the Biopesticide and Pollution Prevention Division identifies an unapproved inert on a PIP CSF and a request to approve the inert does not accompany the application, it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the spelling or name of the inert to that in 40 CFR 174, or providing documentation that the inert has been approved; or
2. Submit the information and data needed for the Agency to approve the unapproved inert. If an inert ingredient tolerance exemption petition is required, the petition must be received by the Agency and the B903 fee paid within the 21 day period. If this option is selected and implemented, the Agency will discuss harmonizing the timeframe for both actions.

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21 day content review period, the Agency will reject the application and retain 25% of the fee.

B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.

C. Biopesticide applicants are advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

1200 Pennsylvania Avenue, N.W.

WASHINGTON, D.C. 20460

Form Approved OMB No. 3070-0040; 2070-0057;
2070-0107; 2070-0122; 2070-0164

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DATA MATRIX

Date: 20 December 2012	EPA Reg No./File Symbol 67690-xx	Page 1 of 14
Applicant's/Registrant's Name & Address SePRO Corporation 11550 N. Meridian St., Ste. 600 Carmel, IN 46032-4565	Product Sonar H4C	

Ingredient: Fluridone					
Guideline #	Guideline Study Name	MRID #	Submitter	Status	Note
830.1700	Preliminary Analysis Determination for Two Sets of Five Batches of Technical Grade Active Ingredient (TGAI) Fluridone	48757501	SePRO	OWN	
830.1550, 830.1600, 830.1620, 830.1750, 830.6317	Fluridone 5P: Product Description, Statements of Formula and Manufacturing Process, and Storage Stability Studies.	42929	SePRO	OWN	
830.1600, 830.1620, 830.1750	Study of the Chemical Fluridone.	103265	SePRO	OWN	
830.1600, 830.1620, 830.1750	Study of the Chemical Sonar (Fluridone).	103269	SePRO	OWN	
830.1550	Characterization of the Identity, Strength, and Purity of Technical Fluridone.	103271	SePRO	OWN	
830.1550, 830.1600, 830.1620, 830.1650, 830.1670, 830.1700, 830.1750, 830.1800	Fluridone Product Chemistry: Summary	103290	SePRO	OWN	
830.1550, 830.1600, 830.1620, 830.1700, 830.1750	EL-171 as for Aquatic Plant Management Systems.	121682	SePRO	OWN	
830.1550, 830.1600, 830.1620, 830.1750	The Name, Chemical Identity, and Composition of the Pesticide Chemical: Fluridone.	127761	SePRO	OWN	
830.1550, 830.1600, 830.1620, 830.1650, 830.1670, 830.1700, 830.1750, 830.1800, 830.6317	Product Chemistry: EL-171 (Fluridone).	135203	SePRO	OWN	
830.1600, 830.1620, 830.1750, 830.6317, and 830.6302 to 830.7950	Product Chemistry Data for Fluridone.	152175	SePRO	OWN	
830.1550, 830.1600, 830.1620, 830.1650, 830.1670, 830.1700, 830.1750, 830.1800, and 830.6302 to 830.7950	Part 158 Product Chemistry Requirements [Physical and Chemical Characteristics]: Sonar [Fluridone].	159967	SePRO	OWN	
830.1550, 830.1600, 830.1620, 830.1650, 830.1670, 830.1700, 830.1750, 830.1800, and 830.6302 to 830.7950	Part 158 Product Chemistry Requirements: Sonar 5P.	159968	SePRO	OWN	
830.1600, 830.1620	Description of Materials Used to Produce the Product and Description of Production Process for Technical Grade Active Ingredient (TGAI) Fluridone.	45092701	SePRO	OWN	

Signature 	Name and Title Laurent C. Mézin, Manager, Regulatory Affairs	Date 20 December 2012
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DATA MATRIX

Date: 20 December 2012		EPA Reg No./File Symbol 67690-xx		Page 2 of 14	
Applicant's/Registrant's Name & Address SePRO Corporation 11550 N. Meridian St., Ste. 600 Carmel, IN 46032-4565		Product Sonar H4C			
Ingredient: Fluridone					
Guideline #	Guideline Study Name	MRID #	Submitter	Status	Note
830.1600, 830.1620, 830.1650, 830.1670, 830.1750	Alternative Manufacturing Process for Sonar Technical.	43335401	SePRO	OWN	
830.1550, 830.1600, 830.1620, 830.1650, 830.1670, 830.1700, 830.1750, 830.1800	Supplemental Product Chemistry Data for Alternate Manufacturing Processes for Fluridone.	45268101	SePRO	OWN	
830.1600, 830.1620	Description of Materials Used to Produce the Product and Description of Production Process for Technical Grade Active Ingredient (TGAI) Fluridone.	45404101	SePRO	OWN	
830.1550, 830.1600, 830.1620, 830.1650, 830.1670, 830.1700, 830.1750, 830.1800	Product Identity and Composition of the End-use Product SonarOne	47293601	SePRO	OWN	
830.1550	Summary and Conclusions.	82349	SePRO	OWN	
NA	Summary and Conclusions: Toxicology Report No. 11.	82354	SePRO	OWN	
830.1550, 830.1750	Determination of Volatile Nitrosamines in Technical Fluridone.	103272	SePRO	OWN	
830.1600, 830.1620, 830.1650, 830.1670, and 830.1750	Synthesis and Resolution of EL-171 (Fluridone).	30258	SePRO	OWN	
830.1700	Preliminary Analysis for Five Batches of Technical Grade Active Ingredient (TGAI) Fluridone.	45092702	SePRO	OWN	
830.1700	Preliminary Analysis for Five Batches of Technical Grade Active Ingredient (TGAI) Fluridone: Final Report.	45092703	SePRO	OWN	
830.1700	Preliminary Analysis Determination for Five Batches of Technical Grade Active Ingredient (TGAI) Fluridone.	45668201	SePRO	OWN	
830.1700	Preliminary Analysis Determination for Five Batches of Technical Grade Active Ingredient (TGAI) Fluridone: Final report.	46966301	SePRO	OWN	
830.1800	Determination of Fluridone, 1-Methyl-3-phenyl-5-3-(trifluoromethyl)phenyl-4-(1-H)-pyridinone, in Formulations and Technical Products by High Pressure Liquid Chromatography.	42930	SePRO	OWN	
Signature 		Name and Title Laurent C. Mézin, Manager, Regulatory Affairs		Date 20 December 2012 209	



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Applicant's/Registrant's Name & Address SePRO Corporation 11550 N. Meridian St., Ste. 600 Carmel, IN 46032-4565		Product Sonar H4C			
Ingredient Fluridone					
Guideline #	Guideline Study Name	MRID #	Submitter	Status	Note
830.1800	Determination of Fluridone (EL-171) in Technical Material, Formulations, and Formulation Test Water by High Performance Liquid Chromatography.	159964	SePRO	OWN	
830.1700, 830.7000, 830.7300	Preliminary Analysis, pH, and Density Determinations for Five Batches of Technical Grade Active Ingredient (TGA) Fluridone.	45404102	SePRO	OWN	
830.6317	Fluridone Technical Storage Stability	103274	SePRO	OWN	
830.6317	Fluridone as Storage Stability	103275	SePRO	OWN	
830.6317, 830.1550, 830.1600, 830.1620, 830.1650, 830.1670, 830.1700, 830.1750, 830.1800	Sonar 5P: Product Characteristics and Storage Stability Studies	103291	SePRO	OWN	
830.6317, 830.6320	Determination of the Storage Stability and Corrosion Characteristics for Sonar Q.	46264701	SePRO	OWN	
830.7000, 830.7300	Determination of pH and Bulk Density for Fluridone (Lot Number 9DAD0012R).	45268103	SePRO	OWN	
830.7000, 830.7300	Determination of pH and Bulk Density for Fluridone (Lot Numbers 9DAD0003R and 8ANZ0011).	45268104	SePRO	OWN	
830.7550, 830.7560, 830.7570	The Determination of the Octanol-water Partition Coefficient of Fluridone.	41144001	SePRO	OWN	
830.7840, 830.7860	Solubility of Fluridone in Water	41427001	SePRO	OWN	
870.1100, 870.1200, 870.1300, 870.2400	Acute Toxicity Studies of EL-171 in Five Species.	135206	SePRO	OWN	
870.1100	Acute Oral Toxicity of a Wettable Powder Containing 50% EL-171 in Rats: Toxicology Report No. 10.	82345	SePRO	OWN	
870.1100	The Acute Toxicity of Sonar 5P, a Pellet Formulation (AT-0969) Containing Fluridone at a Concentration of 5%, Administered Orally to the Fischer 344 Rat.	154554	SePRO	OWN	
870.1100	Acute Oral Toxicity of Aqueous Suspension: Toxicology Report No. 11.	823504	SePRO	OWN	
870.1200	Acute Dermal Toxicity of a Wettable Powder Containing 50% EL-171 in Rabbits: Toxicology Report No. 10.	82347	SePRO	OWN	
Signature 		Name and Title Laurent C. Mézin, Manager, Regulatory Affairs		Date 20 December 2012	

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Date: 20 December 2012		EPA Reg No./File Symbol 67690-XX		Page 4 of 14	
Applicant's/Registrant's Name & Address SePRO Corporation 11550 N. Meridian St., Ste. 600 Carmel, IN 46032-4565		Product Sonar H4C			
Ingredient: Fluridone					
Guideline #	Guideline Study Name	MRID #	Submitter	Status	Note
870.1200	Acute Dermal Toxicity of an Aqueous Suspension Containing 45% EL-171 in Rabbits: Toxicology Report No. 11.	82352	SePRO	OWN	
870.1300	Acute Inhalation Toxicity of a Wettable Powder Containing 50% EL-171 in Rats: Toxicology Report No. 10.	82348	SePRO	OWN	
870.1300	Acute Inhalation Toxicity of an Aqueous Suspension Containing 45% EL-171 in Rats: Toxicology Report No. 11.	82353	SePRO	OWN	
870.1300	The Acute Inhalation Toxicity of Fluridone (EL-171, Compound 112371) in the Fischer 344.	41424103	SePRO	OWN	
870.2400	Acute Rabbit Ocular Irritation Study of a Wettable Powder Containing 50% EL-171: Toxicology Report No. 10.	82346	SePRO	OWN	
870.2400	Acute Rabbit Ocular Irritation Study of an Aqueous Suspension Containing 45% EL-171: Toxicology Report No. 11.	82351	SePRO	OWN	
870.1100, 870.1200, 870.2400	The Acute Oral, Dermal, and Ocular Toxicity Testing of Sonar 5P, A Pellet Formulation (AT-0969) Containing Fluridone, LOT X-35167.	103259	SePRO	OWN	
870.2400	The Acute Primary Ocular Irritation of Fluridone (EL-171, Compound 112371) in the New Zealand White Rabbit.	41424104	SePRO	OWN	
870.2600	Guinea Pig Sensitization Study of an Aqueous Suspension Containing 4 Pounds per Gallon of Fluridone, Compound 112371.	103300	SePRO	OWN	
870.2600	A Guinea Pig Sensitization Study of Technical Fluridone (EL-171, Compound 112371).	159969	SePRO	OWN	
870.2600	Individual Induction and Challenge Data for Guinea Pig Sensitization Study of Technical Fluridone (EL-171, Compound 112371).	41424105	SePRO	OWN	
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Applicant's/Registrant's Name & Address SePRO Corporation 11550 N. Meridian St., Ste. 600 Carmel, IN 46032-4565		Product Sonar H4C			
Ingredient Fluridone					
Guideline #	Guideline Study Name	MRID #	Submitter	Status	Note
870.1100, 870.1200, 870.2400	The Acute Oral, Dermal, and Ocular Toxicity Testing of Sonar SP, A Pellet Formulation (AT-0969) Containing Fluridone, LOT X-35167.	103259	SePRO	OWN	
870.1100, 870.1200, 870.2400	Acute Oral, Dermal, and Ocular Toxicity Testing of Sonar SP, A Pellet Formulation Containing 5% Fluridone (Compound 11237).	103260	SePRO	OWN	
870.1200, 870.2500	The Acute Dermal Toxicity and Primary Dermal Irritation of Fluridone (EL-171, Compound 112371) in the New Zealand White Rabbit.	41424102	SePRO	OWN	
870.3100	A 3-month Oral Toxicity Study of EL-171 in Mice: Toxicology Report No. 6.	82341	SePRO	OWN	
870.3100	A 3-month Oral Toxicity Study of EL-171 in Mice: Toxicology Report No. 7.	82342	SePRO	OWN	
870.3100	A 7-day Oral Toxicity Study of EL-171 in Rats.	135207	SePRO	OWN	
870.3100	A 3-month Oral Toxicity study of EL-171 in Rats.	135208	SePRO	OWN	
870.3100	A 3-month Oral Toxicity Study of EL-171 in Rats.	135209	SePRO	OWN	
870.3100	A 3-Month Oral Toxicity Study of EL-171 in Mice.	135210	SePRO	OWN	
870.3150	A 2-week Pilot Oral Toxicity Study of EL-171 in Beagle Dogs: Toxicology Report No. 8.	82343	SePRO	OWN	
870.3150	A 3-month Oral Toxicity Study of EL-171 in Beagle Dogs: Toxicology Report No. 9.	82344	SePRO	OWN	
870.3200	Subchronic (Three Week) Dermal Toxicity Study in Rabbits with an Aqueous Suspension Containing 4 Pounds per Gallon Fluridone, Compound 112371.	103299	SePRO	OWN	
870.3200	Subchronic (21-day) Dermal Toxicity Study in New Zealand White Rabbits with Technical Fluridone (EL-171, Compound 112371).	160111	SePRO	OWN	
870.3200	Subchronic (21-Day) Dermal Toxicity Study in New Zealand White Rabbits with Technical Fluridone (EL-171, Compound 112371).	44135109	SePRO	OWN	
Signature 		Name and Title Laurent C. Mézin, Manager, Regulatory Affairs		Date 20 December 2012	



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Applicant's/Registrant's Name & Address SePRO Corporation 11550 N. Meridian St., Ste. 600 Carmel, IN 46032-4565		Product Sonar H4C			
Ingredient: Fluridone					
Guideline #	Guideline Study Name	MRID #	Submitter	Status	Note
870.3800	A One-Generation Reproduction Bridging Study of Fluridone (EL-171, Compound 112371) Administered in the Diet to Fischer 344 Rats.	43701901	SePRO	OWN	
870.3700, 870.3800	A Pilot Reproduction Study with EL-171 in the Dutch Belted Rabbit.	103301	SePRO	OWN	
870.3700	A Teratology Study with EL-171 in the Dutch Belted Rabbit.	103302	SePRO	OWN	
870.3700	A Teratology Study with EL-171 in the Fischer 344 Rat.	103303	SePRO	OWN	
870.3700	A Second Teratology Study of Fluridone (EL-171) Administered Orally to CD Rats.	159963	SePRO	OWN	
870.3800	A Multi-generation Reproduction Study with EL-171 in the Rat.	103304	SePRO	OWN	
870.4100	A Two-year Chronic Dietary Toxicity Study of EL-171 in the Rat.	103251	SePRO	OWN	
870.4100	A Two-year Chronic Dietary Toxicity Study of Fluridone (EL-171) in the Mouse.	103252	SePRO	OWN	
870.4100	A One-year Chronic Dietary Toxicity Study of EL-171 in the Rat.	103305	SePRO	OWN	
870.4100	A One-year Chronic Dietary Toxicity Study of EL-171 in the Mouse.	103335	SePRO	OWN	
870.4100	A One Year Chronic Toxicity Study of EL-171 Administered Orally to Beagle Dogs.	103336	SePRO	OWN	
870.4200	Letter sent to J. Hooks dated Feb. 6, 1985: Response to EPA concerning toxicology studies with Fluridone.	152174	SePRO	OWN	
870.5375	The Effect of Fluridone on the in vivo Induction of Sister Chromatid Exchange in Bone Marrow of Chinese Hamsters.	103256	SePRO	OWN	
870.5550	The Effect of Fluridone (Lilly Compound 112371) on the Induction of DNA Repair Synthesis in Primary Cultures of Adult Rat Hepatocytes.	103255	SePRO	OWN	
870.5550	The Effect of Lilly Compound 125670 on the Induction of DNA Repair Synthesis in Primary Cultures of Adult Rat Hepatocytes.	103258	SePRO	OWN	
Signature 		Name and Title Laurent C. Mézin, Manager, Regulatory Affairs		Date 20 December 2012	



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Applicant's/Registrant's Name & Address SePRO Corporation 11550 N. Meridian St., Ste. 600 Carmel, IN 46032-4565		Product Sonar H4C			
Ingredient: Fluridone					
Guideline #	Guideline Study Name	MRID #	Submitter	Status	Note
870.7485	Radiocarbon Excretion from Fischer 344 Rats after Administration of a Single Oral Dose of 14C-Fluridone; Excretion of Radioactivity into Bile from Fischer 344 Rats after Administration of a Single Oral Dose of 14C-Fluridone; Distribution of Radioactivity into Tissues and Organs from Fischer 344 Rats after Administration of a Single Oral Dose of 14C-Fluridone.	103261	SePRO	OWN	
870.7485	Metabolism of 14C Fluridone in the Rat.	103262	SePRO	OWN	
870.7485	Fluridone: Rat Metabolism Study: (Final Report).	44265101	SePRO	OWN	
870.5100	The Effect of Lilly Compound 112371, EL-171, upon Bacterial Systems Known To Detect Mutagenic Events.	82355	SePRO	OWN	
870.5375	A Dominant Lethal Study with EL-171 in the Rat: Study R-0028: Toxicology Report No. 12.	103253	SePRO	OWN	
870.5100	The Effect of Fluridone on the Induction of Bacterial Mutation Using a Modification of the Ames Test.	103254	SePRO	OWN	
870.5100	The Effect of Lilly Compound 125670 on the Induction of Bacterial Mutation Using a Modification of the Ames Test.	103257	SePRO	OWN	
850.1010, 850.1025, 850.1075	The Toxicity of Fluridone (EL-171, Compound 112371) and of Sonar AS, an Aqueous Suspension Formulation of Fluridone, to Aquatic Invertebrates and Fish in Acute and Chronic Studies.	103297	SePRO	OWN	
850.1010	The Toxicity of Sonar AS, an Aqueous Suspension Formulation of Fluridone (EL-171, Compound 112371) to Daphnia magna in a 48-hour Static Test.	103296	SePRO	OWN	
850.1010	The Toxicity of Compound 112371 (EL-171) to Daphnia magna in a 48-hour Static Test.	121691	SePRO	OWN	
850.1010	The Toxicity of Fluridone (EL-171, Compound 112371) to Crayfish (Orconectes immunis) in a 14-day Flow-through Test	162774	SePRO	OWN	
850.1025	Acute Toxicity of Compound 112371 to Eastern Oysters (Crassostrea virginica).	103310	SePRO	OWN	
850.1025	Acute Toxicity of Sonar AS, a Formulation of Lilly Compound 112371 to Eastern Oysters (Crassostrea virginica).	103314	SePRO	OWN	
850.1055	Acute Toxicity of Compound 112371, to Embryos-larvae of Eastern Oysters (Crassostrea virginica).	103311	SePRO	OWN	
Signature 		Name and Title Laurent C. Mézin, Manager, Regulatory Affairs		Date 20 December 2012	

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Form Approved OMB Nos. 2070-0058; 2070-0059;
2070-0107; 2070-0122; 2070-0164

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DATA MATRIX

Date 20 December 2012	EPA Reg No./File Symbol 67690-xx	Page 8 of 14
Applicant's/Registrant's Name & Address SePRO Corporation 11550 N. Meridian St., Ste. 600 Carmel, IN 46032-4565	Product Sonar H4C	

Ingredient Fluridone

Guideline #	Guideline Study Name	MRID #	Submitter	Status	Note
850.1055	Acute Toxicity of Sonar AS, a Formulation of Lilly Compound 112371 to Embryos-larvae of Eastern Oysters (<i>Crassostrea virginica</i>).	103315	SePRO	OWN	
850.1075	The Toxicity of Sonar AS, an Aqueous Suspension Formulation of Fluridone (EL-171, Compound 112371), to Bluegills in a 96-hour Static Test.	103306	SePRO	OWN	
850.1075	The Toxicity of Sonar AS, an Aqueous Suspension Formulation of Fluridone (EL-171, Compound 112371), to Rainbow Trout in a 96-hour Static Test.	103307	SePRO	OWN	
850.1075	The Toxicity of Fluridone (EL-171, Compound 112371) to Bluegills in a 96-hour Static Test.	103308	SePRO	OWN	
850.1010	Acute Toxicity of Sonar AS, a Formulation of Lilly Compound 112371 to Blue Crabs (<i>Callinectes sapidus</i>).	103313	SePRO	OWN	
850.1075	Acute Toxicity of Sonar AS, a Formulation of Lilly Compound 112371 to Sheepshead Minnows (<i>Cyprinodon variegatus</i>).	103316	SePRO	OWN	
850.1010	Acute Toxicity of Compound 112371 to Blue Crabs (<i>Callinectes sapidus</i>).	108836	SePRO	OWN	
850.1075	Acute Toxicity of Compound 112371 to Sheepshead Minnows (<i>Cyprinodon variegatus</i>): Report No. BP-80-7-131	108837	SePRO	OWN	
850.1075	The Toxicity of Compound 112371 (EL-171) to Bluegills in a 96 Hour Static Test.	121689	SePRO	OWN	
850.1075	The Toxicity of Compound 112371 (EL-171) to Rainbow Trout in a 96 Hour Static Test.	121690	SePRO	OWN	
850.1075	The Toxicity of Compound 112371 (EL-171) to Bluegills in a 96 Hour Static Test.	135212	SePRO	OWN	
850.1075	Seawater Challenge Test to Measure Seawater Adaptability of Juvenile Chinook Salmon <i>Oncorhynchus tshawytscha</i> , Exposed to Fluridone.	46112001	SePRO	OWN	
850.1045	Acute Toxicity of Sonar AS, a Formulation of Lilly Compound 112371 to Pink Shrimp (<i>Penaeus duorarum</i>).	103312	SePRO	OWN	
850.1045	Acute Toxicity of Compound 112371 to Pink Shrimp (<i>Penaeus duorarum</i>).	112789	SePRO	OWN	

Signature 	Name and Title Laurent C. Mézin, Manager, Regulatory Affairs	Date 20 December 2012
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Date 20 December 2012		EPA Reg No./File Symbol 67690-xx	Page 9 of 14		
Applicant's/Registrant's Name & Address SePRO Corporation 11550 N. Meridian St., Ste. 600 Carmel, IN 46032-4565		Product Sonar H4C			
Ingredient Fluridone					
Guideline #	Guideline Study Name	MRID #	Submitter	Status	Note
850.1400	Early Life Stage Toxicity of Fluridone to the Chinook Salmon, <i>Oncorhynchus tshawytscha</i> , Under Flow-Through Conditions.	45915601	SePRO	OWN	
850.1500	The Toxicity of Compound 112371 (EL-171, Fluridone) to Fathead Minnow in a Full Life Cycle Study.	103309	SePRO	OWN	
850.1500	Performance of Fish Populations in Ponds Treated with Sonar 4AS, an Aqueous Formulation of Fluridone (EL-171, Compound 112371).	103317	SePRO	OWN	
850.1500	Determination of Residues of Fluridone and its Major Metabolite in Fathead Minnows during a Full Life Cycle Study.	103334	SePRO	OWN	
850.1730	Projected Residues of Fluridone in Water, Hydrosol, and Edible Fish Tissue upon Retreatment of Lakes with Sonar.	162340	SePRO	OWN	
850.1950	Fish and Wildlife.	42933	SePRO	OWN	
850.2100	The Toxicity of Compound 112371 (EL-171) to Bobwhite Quail in a 14-day Acute Oral Study.	121686	SePRO	OWN	
850.2200	The Toxicity of Compound 112371 (EL-171) to Bobwhite Quail in an Eight-day Dietary Study.	121687	SePRO	OWN	
850.2200	The Toxicity of Compound 112371 (EL-171) to Mallard Ducks in an Eight-day Dietary Study.	121688	SePRO	OWN	
850.2200	The Toxicity of Compound 112371 (EL-171) to Mallard Ducks in an Eight-day Dietary Study.	135370	SePRO	OWN	
850.2300	The Toxicity of Fluridone (EL-171, Compound 112371) in a One-generation Reproduction Study with Bobwhite.	103293	SePRO	OWN	
850.2300	The Toxicity of Fluridone (EL-171, Compound 112371) in a One-generation Reproduction Study with Mallards.	103294	SePRO	OWN	
850.3020	Letter sent to R. Willemssen dated Mar 17, 1982: Laboratory honey bee toxicity tests on fluridone.	103295	SePRO	OWN	
NA	EL-171 AS For Weed Control in Cotton: Efficacy	135205	SePRO	OWN	
850.5100	The Effect of Fluridone on Microorganisms in Soil Culture.	103329	SePRO	OWN	
NA	The Effect of Fluridone on the Degradation of Starch, Cellulose, and Protein in Soil.	103330	SePRO	OWN	
850.6200	The Toxicity of Compound 112371 (EL-171) to Earthworms in a 14-day Soil Incorporated Study.	121692	SePRO	OWN	
860.1300	Determination of Radioactive Residues in Milk from Cows Orally Dosed with 14C Fluridone.	103322	SePRO	OWN	
Signature 		Name and Title Laurent C. Mézin, Manager, Regulatory Affairs		Date 20 December 2012	



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DATA MATRIX

Date: 20 December 2012		EPA Reg No./File Symbol 67690-xx	Page 10 of 14		
Applicant's/Registrant's Name & Address SePRO Corporation 11550 N. Meridian St., Ste. 600 Carmel, IN 46032-4565		Product Sonar H4C			
Ingredient: Fluridone					
Guideline #	Guideline Study Name	MRID #	Submitter	Status	Note
860.1300	Determination of Radioactive Residues in Tissues of Broiler Chickens Orally Dosed with 14C Fluridone.	103323	SePRO	OWN	
860.1300	Determination of Radioactive Residues in Eggs from Chickens Orally Dosed with 14C Fluridone.	103324	SePRO	OWN	
860.1300	Determination and Characterization of Radioactive Residues in Tissues of Steers Dosed with 14C Fluridone.	108838	SePRO	OWN	
860.1300	Determination and Characterization of Radioactive Residues in Tissues of Swine Dosed with 14C Fluridone.	108839	SePRO	OWN	
860.1340, 860.1360, 830.1800	Tolerance Enforcement Methods for Fluridone Residues.	115249	SePRO	OWN	
860.1400	Letter sent to G. Shoop dated Jun 1, 1978 Effects of EL 171 on Pond Life : Report #2.	121698	SePRO	OWN	
860.1850	14C Fluridone Rotational Crop Residue Study.	125741	SePRO	OWN	
860.1340	Determination of Fluridone Residue in Crops by High Pressure Liquid Chromatography.	159965	SePRO	OWN	
860.1360	Behavior of Fluridone and Its Fish Metabolite (Compound 125670) in FDA Multiresidue Protocols.	40822001	SePRO	OWN	
860.1400	An Interim Report of Fluridone Residues in Water and Fish.	28725	SePRO	OWN	
860.1400, 835.6100	Residues in Crops and Soils Irrigated with Water Containing the Aquatic Herbicide Fluridone.	125742	SePRO	OWN	
860.1340	Determination of Fluridone in Water by High-performance Liquid Chromatography Following Extraction with Sep-Pak C18 Cartridges.	40485901	SePRO	OWN	
860.1340	Gas Chromatographic Determination of Residue Levels of N-methylformamide in Water.	40485902	SePRO	OWN	
860.1400	Uptake and Metabolism of 14C Fluridone by Bluegills.	30256	SePRO	OWN	
860.1400	Supplemental Report on the Uptake and Metabolism of 14C Fluridone by Bluegills.	103332	SePRO	OWN	
860.1560	Reasonable Grounds in Support of the Petition for Residue Tolerances of Fluridone.	103266	SePRO	OWN	
835.1230	Soil Adsorption Coefficient of Fluridone.	135218	SePRO	OWN	
835.1230	Adsorption-Desorption of (carbon 14)-Fluridone in Soil and Sediment.	44138501	SePRO	OWN	
Signature 		Name and Title Laurent C. Mézin, Manager, Regulatory Affairs		Date 20 December 2012	
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Date 20 December 2012		EPA Reg No./File Symbol 67690-XX	Page 11 of 14		
Applicant's/Registrant's Name & Address SePRO Corporation 11550 N. Meridian St., Ste. 600 Carmel, IN 46032-4565		Product Sonar H4C			
Ingredient: Fluridone					
Guideline #	Guideline Study Name	MRID #	Submitter	Status	Note
835.1240	Fluridone Soil Leaching Study.	135219	SePRO	OWN	
835.2240	Photolysis of Fluridone in Aqueous Solution.	103326	SePRO	OWN	
835.2240	Photolysis of Fluridone in Aqueous Solution.	125743	SePRO	OWN	
835.2120	Photochemical Rate Studies with EL-171 in Aqueous Solution.	135221	SePRO	OWN	
835.2120	Hydrolysis Study of Fluridone.	41424101	SePRO	OWN	
835.4400	Anaerobic Aquatic Metabolism of 14C Fluridone.	103327	SePRO	OWN	
835.4100, 835.4200	14C Fluridone Degradation Study in Aerobic and Anaerobic Soil.	135217	SePRO	OWN	
835.4300	Aerobic Aquatic Metabolism of (carbon 14)-Fluridone.	44154801	SePRO	OWN	
835.6100, 860.1400	Residues in Crops and Soils Irrigated with Water Containing the Aquatic Herbicide Fluridone.	125742	SePRO	OWN	
835.6100	EL-171 for Weed Control in Cotton Soil Residues.	135213	SePRO	OWN	
835.6100	Fluridone Residues in Soil.	135214	SePRO	OWN	
835.6100	Fluridone and Trifluralin Residues in Soil.	135215	SePRO	OWN	
835.6100	14C Fluridone Soil Degradation Studies.	135216	SePRO	OWN	
835.6100	Determination of Fluridone in Soil and Hydrosol by High Pressure Liquid Chromatography.	159966	SePRO	OWN	
835.6200	Dissipation of 14C Fluridone from Water of Artificial Ponds.	28724	SePRO	OWN	
835.6200	Dissipation of 14C Fluridone from Water of Artificial Ponds.	30255	SePRO	OWN	
835.6200	EL-171 (Fluridone) Aquatic Weed Management.	51379	SePRO	OWN	
835.6200	Some Physical, Chemical, and Biological Characteristics of a Lake and Ponds Treated with Sonar AS and Sonar 5P Aqueous and Pellet Formulations of Fluridone (EL-171, Compound 112371).	103318	SePRO	OWN	
835.6200	Environmental Fate: Summary of studies 070937-B through 070937-J.	103325	SePRO	OWN	
835.6200	Fluridone--a New Aquatic Herbicide.	121696	SePRO	OWN	
Signature 		Name and Title Laurent C. Mézin, Manager, Regulatory Affairs		Date 20 December 2012	



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Applicant's/Registrant's Name & Address SePRO Corporation 11550 N. Meridian St., Ste. 600 Carmel, IN 46032-4565		Product Sonar H4C			
Ingredient: Fluridone					
Guideline #	Guideline Study Name	MRID #	Submitter	Status	Note
835.6200	Fluridone Concentration in Drainage Canal Water Treated with Sonar.	130004	SePRO	OWN	
835.6200	Fluridone Concentration in Water from Drainage Canals Receiving Split Applications of Sonar SP.	162339	SePRO	OWN	
835.2120, 835.6200	Dissipation of the experimental aquatic herbicide Fluridone from lakes and ponds.	30257	SePRO	OWN	
850.1730, 860.1400	Residues of Fluridone and Its Major Metabolites in Crayfish from Ponds Treated with the Aquatic Herbicide Sonar.	162775	SePRO	OWN	
NA	Sonar Residue Chemistry Summary.	103319	SePRO	OWN	
860.1340, 860.1400	The Results of Tests on the Amount of Fluridone Residue Remaining, Including a Description of the Analytical Method Used.	127762	SePRO	OWN	
860.1500	EL-171 AS for Weed Control in Cotton: Residue Data.	135204	SePRO	OWN	
860.1400, 835.6200	Field Dissipation and Residue Trials with the Aquatic Herbicide Sonar in Lakes and Ponds.	103333	SePRO	OWN	
NA	EL-171 as for Aquatic Plant Management Systems: Fish and Wildlife and Microscopic Organisms.	135369	SePRO	OWN	
NA	EL-171 as for Aquatic Plant Management Systems: Environmental Chemistry.	135371	SePRO	OWN	
870.3100, 870.3150, 870.4100, 870.4200, 870.5100, 870.5140, 870.5300, 870.5375	Response to EPA concerning Toxicology Studies with Fluridone	154553	SePRO	OWN	
NA	Characterization of Analytical Standards of LSN99952, LSN116535, and a Mixture of LSN88846 and LSN88847 for Purity and Identity	45268102	SePRO	OWN	
NA	Conclusions: Fluridone.	42931	SePRO	OWN	
NA	Depuration of Fluridone Residues From Dry-Treated Sediments Following Seasonal Flooding of Irrigation Canals in Idaho	46866401	SePRO	OWN	
835.6200	Dissipation of 14C Fluridone from Water of Artificial Ponds.	103320	SePRO	OWN	
Signature 		Name and Title Laurent C. Mézin, Manager, Regulatory Affairs		Date 20 December 2012	



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Applicant's/Registrant's Name & Address SePRO Corporation 11550 N. Meridian St., Ste. 600 Carmel, IN 46032-4565		Product Sonar H4C			
Ingredient: Fluridone					
Guideline #	Guideline Study Name	MRID #	Submitter	Status	Note
NA	Ecological Effects Safety Assessment for Sonar, A Formulation of Fluridone.	103268	SePRO	OWN	
NA	Effects of Fluridone on Benthic Invertebrates: Report #1.	121685	SePRO	OWN	
NA	Efficacy: EL-171.	42932	SePRO	OWN	
NA	EL-171 as for Aquatic Plant Management Systems: Efficacy.	121683	SePRO	OWN	
NA	EL-171 as for Aquatic Plant Management Systems: Fish and Wildlife.	121684	SePRO	OWN	
NA	EL-171 as for Aquatic Plant Management Systems: Environmental Chemistry.	121693	SePRO	OWN	
NA	Environmental Chemistry.	42934	SePRO	OWN	
NA	Fluridone Safety Assessments for Humans.	103264	SePRO	OWN	
NA	Submission of Environmental Fate Data in Support of the Registrations of Sonar A.S. and Sonar SPR.	44154800	SePRO	OWN	
NA	Fluridone, a New Herbicide for Aquatic Plant Management.	121697	SePRO	OWN	
NA	General Summary of Data Submitted for the Registration of Sonar (Fluridone).	103263	SePRO	OWN	
NA	Microbial Interactions: The Effect of Fluridone on Microorganisms in Aerated Sludge	103331	SePRO	OWN	
NA	Summary: Ecological Effect Studies with Fluridone and Sonar: Summary of studies 070932-B-070932-F.	103292	SePRO	OWN	
NA	The Effect of Fluridone on Microorganisms.	121694	SePRO	OWN	
NA	The Effect of Fluridone on Microorganisms.	103328	SePRO	OWN	
NA	The Potential Economic Value of Sonar in Aquatic Weed Management.	154552	SePRO	OWN	
NA	Toxicologic Data: Hazard Evaluation, Humans and Domestic Animals.	103298	SePRO	OWN	
860.1400	Uptake and Metabolism of 14C Fluridone by Bluegills.	103321	SePRO	OWN	
860.1400	Uptake and Metabolism of 14C Fluridone by Bluegills.	121695	SePRO	OWN	
860.1400	Uptake and Metabolism of 14C Fluridone by Bluegills.	135372	SePRO	OWN	
Signature 		Name and Title Laurent C. Mézin, Manager, Regulatory Affairs			Date 20 December 2012



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Applicant's/Registrant's Name & Address SePRO Corporation 11550 N. Meridian St., Ste. 600 Carmel, IN 46032-4565		Product Sonar H4C			
Ingredient: Fluridone					
Guideline #	Guideline Study Name	MRID #	Submitter	Status	Note
870-5100	The Effect of Fluridone on the Induction of Bacterial Mutation Using a Modification of the Ames Test: Study 810413-GPA-574.	103254	SePRO	OWN	
830.6316	Explosibility of Fluridone Technical.	103270	SePRO	OWN	
830.1550, 830.1600, 830.1620, 830.1650, 830.1670, 830.1700, 830.1750, 830.1800	Fluridone, Compound 112371.	103273	SePRO	OWN	
830.1550, 830.1600, 830.1620, 830.1650, 830.1670, 830.1700, 830.1750, 830.1800	Reference Standard Profile: EL171 : PDD 1138.	108834	SePRO	OWN	
830.1550, 830.1600, 830.1620, 830.1650, 830.1670, 830.1700, 830.1750, 830.1800	Reference Standard Profile: EL171 : PDD 1273.	108835	SePRO	OWN	
835.6200	Data To Support a Seven-day Retreatment Interval for Sonar in Lakes, Reservoirs, Canals, and Rivers: Study No. EWD8621.	162341	SePRO	OWN	
830.6302, 830.6303, 830.6304, 830.7300, 830.7000, 830.6314	Determination of color, physical state, odor, bulk density, pH, and oxidation/reduction chemical incompatibility for Sonar H4C	NEW	SePRO	OWN	
830.7100	Not applicable	n/a	SePRO	OWN	
Signature 		Name and Title Laurent C. Mézin, Manager, Regulatory Affairs		Date 20 December 2012	

21-Day Screen Completed by
Contractor

21-Day Expires on 1/16/13

Jacket # 67690-AA

MRID# 490265

Content Screen: Recommend to ~~Pass~~/Fail

11-3 Review: ~~Pass~~/Fail/NA

Overall Status: Recommend to ~~Pass~~/Fail

Transfer This Jacket to:

Steve Schable

Similarity Clinic Screen Completed

Date: 1/15/13

Jacket #: 67690-AR

Actions Done:

Acute Toxicity Review: COMPLETED - IN JACKET

Acute Toxicity Language for Label: IN REVIEW

Product Chemistry Review: SUBMITTED - OK TO SEND
TO TRB FOR FULL REVIEW

Transfer This Jacket To:

KAY MONTAGUE, PM 23

R 300 and 301

100% identical (repack): YES or NO (circle one)

{If **yes**, it's a 100% repack - then product chemistry, acute toxicity and efficacy data are not required}

Data on Group A and B must be submitted - Group A and B can not be cited.

Guideline No.	Group A: Product Chemistry Data Study Title	Data submitted	
		Yes	No
830.1550	Product Identity & Composition	X	
830.1600	Description of materials used to produce the product	X	
830.1650	Description of formulation process	X	
830.1670	Discussion on the formation of impurities	X	
830.1700	Preliminary analysis	X	
830.1750	Certified limits (158.345)	X	
830.1800	Enforcement analytical method	X	

Guideline No.	Group B: Product Chemistry Data Study Title	Data submitted	
		Yes	No
830.6302	Color	X	
830.6303	Physical State	X	
830.6304	Odor	X	
830.6314	Oxidation/Reduction (Chemical incompatibility)	X	
830.6315	Flammability	waiver	
830.6316	Explodability	waiver	
830.6317	Storage stability	waiver	
830.6319	Miscibility	waiver	
830.6320	Corrosion Characteristics	waiver	
830.6321	Dielectric Breakdown voltage	waiver	
830.7000	pH	X	
830.7100	Viscosity	n/a	
830.7300	Density	X	

R 300 and 301

New products must provide a bridging rationale document. The bridging document directs OPP to use a currently registered set of 6 acute toxicity data and label; instead of submitting product specific data.

Guideline No.	Acute toxicity (6 pack) Study Title	Cited	
		Yes	No
870.1100	Acute Oral (LD50)	X	
870.1200	Acute Dermal (LD50)	X	
870.1300	Acute Inhalation (LC50)	X	
870.2400	Acute Eye Irritation	X	
870.2500	Acute Dermal Irritation	X	
870.2600	Dermal Sensitization	X	

Efficacy – which guideline depends on the proposed label use and they must cite the data to be used for the bridging rationale.

Guideline No.	Efficacy Study Titles	Cited		Comments
		Yes	No	
810.3100	Soil Treatments for Imported Fire Ants			
810.3200	Livestock, Poultry, Fur and Wool-Bearing Animal Treatments			
810.3300	Treatments to Control Pests of Humans and Pets			
810.3400	Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments			
810.3500	Premises Treatments			
810.3600	Structural Treatments			
810.3800	Methods for Efficacy Testing of Termite Baits			

Script for Rejection Phone calls

Contact Name: Laurent Muzin
Phone #: 37-580-8286
Email: laurentm@sepro.com

First Call/Initials:

Date: 1/2/13
Time: 2:20 pm

Second Call/Initials:

Date:
Time:

This is Elizabeth Nguyen, EPA contractor.

I'm calling regarding your submission in support of

Sonar HLC (Reg# 67690-AR)

We have found the following deficiencies regarding:

PR Notice 86.5: Yes or No

Volume/Study Title:

Volume/Study Title:

Volume/Study Title:

Additional volumes continued on back of page: Yes or No

Application Package: Yes or No

- ✓ Certification with respect to citation of Data firm
- not filled out completely choose selective method
- ✓ Missing data guideline 830.7100 for PRIA Action code 300.


These deficiencies have been approved by EPA.

The corrections can be faxed to 703-305-5060/Attn: _____.

Second Call/Email:

If we do not receive the corrections by _____, we will process your submission, accordingly. Please direct all future calls and correspondence to the appropriate EPA Risk Manager.



RE: EPA Submission: Sonar H4C (Reg# 67690-AR) 
Elizabeth Nguyen to: Mezin, Laurent
Cc: Sree Nair

01/07/2013 07:38 AM

Dear Laurent,

Yes, thank you, I have received all corrections and appreciate your quick reply. Sorry for my delay in response as I was out sick.

Liz
Elizabeth Nguyen

EPA Contractor
2777 Crystal Drive, S-4828
One Potomac Yard
Arlington, VA 22202
703-305-6177 (p)
703-305-5060 (f)
nguyen.elizabeth@epa.gov

"Mezin, Laurent"

Dear Elizabeth: Could I ask you to confirm you r...

01/04/2013 09:01:36 AM

From: "Mezin, Laurent" <LaurentM@sepro.com>
To: Elizabeth Nguyen/DC/USEPA/US@EPA
Cc: Sree Nair/DC/USEPA/US@EPA
Date: 01/04/2013 09:01 AM
Subject: RE: EPA Submission: Sonar H4C (Reg# 67690-AR)

Dear Elizabeth:

Could I ask you to confirm you received both my email and fax? I am told we sometimes have issues with faxes getting through, and would like to make sure I have fully responded to your queries.

Thank you,
Laurent

Laurent C. Mézin, Ph. D. | Manager, Regulatory Affairs

SePRO Corporation

11550 North Meridian Street, Suite 600 | Carmel, IN 46032 | www.sepro.com
(317) 580 8286 Office
LaurentM@sepro.com

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From: Mezin, Laurent
Sent: Thursday, January 03, 2013 8:55 AM

To: 'Nguyen.Elizabeth@epamail.epa.gov'
Cc: Nair.Sree@epamail.epa.gov
Subject: RE: EPA Submission: Sonar H4C (Reg# 67690-AR)

Dear Elizabeth:

Please find attached the certification form and the public version of the data matrix, both updated per your comments. I am faxing you the full version of the data matrix next.

Please let me know if you've received it, and if you need anything else.

Thanks,
Laurent

Laurent C. Mézin, Ph. D. | Manager, Regulatory Affairs

SePRO Corporation

11550 North Meridian Street, Suite 600 | Carmel, IN 46032 | www.sepro.com
(317) 580 8286 Office
LaurentM@sepro.com

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From: Nguyen.Elizabeth@epamail.epa.gov [<mailto:Nguyen.Elizabeth@epamail.epa.gov>]
Sent: Wednesday, January 02, 2013 3:52 PM
To: Mezin, Laurent
Cc: Nair.Sree@epamail.epa.gov
Subject: RE: EPA Submission: Sonar H4C (Reg# 67690-AR)

Hi Laurent,

In cases when the product is in a granular formulation, we can address the 830.7100 (viscosity) guideline as Not Applicable on the Data Matrices.

Thank you for your time,
Elizabeth Nguyen

EPA Contractor
2777 Crystal Drive, S-4828
One Potomac Yard
Arlington, VA 22202
703-305-6177 (p)
703-305-5060 (f)
nguyen.elizabeth@epa.gov

▽ "Mezin, Laurent" ---01/02/2013 02:55:02 PM---Dear Elizabeth: Thank you for your email. I do have a question:

From: "Mezin, Laurent" <LaurentM@sepro.com>
To: Elizabeth Nguyen/DC/USEPA/US@EPA
Date: 01/02/2013 02:55 PM
Subject: RE: EPA Submission: Sonar H4C (Reg# 67690-AR)

Dear Elizabeth:

Thank you for your email. I do have a question:

The product is granular, and guideline 830.7100 (viscosity) applies to liquids only. Does it still need to be included in the data matrix?

I will update the other form and email it to you.

Thanks, and happy new year,
Laurent

Laurent C. Mézin, Ph. D. | Manager, Regulatory Affairs

SePRO Corporation

11550 North Meridian Street, Suite 600 | Carmel, IN 46032 | www.sepro.com

(317) 580 8286 Office

LaurentM@sepro.com

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From: Nguyen.Elizabeth@epamail.epa.gov [<mailto:Nguyen.Elizabeth@epamail.epa.gov>]

Sent: Wednesday, January 02, 2013 2:20 PM

To: Mezin, Laurent

Cc: Nair.Sree@epamail.epa.gov

Subject: EPA Submission: Sonar H4C (Reg# 67690-AR)

Dear Laurent Mezin,

This email is to address two deficiencies noted within your application for registration for Sonar H4C (Reg# 67690-AR).

- The Certification with Respect to Citation of Data form is not filled out in its entirety. Please choose within Section 1: Method of Data Support the selective method of support.
-
- Data Guideline 830.7100 is missing from the Data Matrix for PRIA Action Code R300.

Please verify these and send the information either by email or to our secure fax line at 703-305-5060. Please contact me if you have any questions.

Sincerely,

Elizabeth Nguyen

EPA Contractor
2777 Crystal Drive, S-4828
One Potomac Yard
Arlington, VA 22202
703-305-6177 (p)
703-305-5060 (f)
nguyen.elizabeth@epa.gov



SePRO Corporation

11550 N. Meridian Street, Suite #600

Carmel, IN 46032-4565

Phone: (317) 580-8282

FAX: (317) 428-4577

TO: Elizabeth Nguyen

FROM: Laurent Mézin

COMPANY: US EPA

FAX #: 703-305-5060

OF PAGES (Including cover): 15

DATE: 03 January 2013

RE: Sonar H4C (67690-AR)

MESSAGE:

Dear Elizabeth:

Per our discussion, please find attached updated data matrix for this pending product. I have emailed you the public version and the certification form. Please let me know if you need anything else.

Best regards,

Laurent Mézin



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

December 31, 2012

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

OPP Decision Number: D-473466
EPA File Symbol or Registration Number: 67690-AR
Product Name: SONAR H4C
EPA Receipt Date: 26-Dec-2012
EPA Company Number: 67690
Company Name: SEPRO CORPORATION

LAURENT MEZIN, PH.D.
SEPRO CORPORATION
11550 N. MERIDIAN ST SUITE 600
CARMEL, IN 46032

SUBJECT: Receipt of Application and 50% Small Business Waiver Request

Dear Registrant:

The Office of Pesticide Programs has received your application, 50% small business waiver request, and certification of payment. If you submitted data with this application, the results of the PRN-2011-3 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: R300
NEW PRODUCT;OR SIMILAR COMBINATION PRODUCT (ALREADY REGISTERED) TO AN IDENTICAL OR SUBSTANTIALLY SIMILAR IN COMPOSITION AND USE TO A REGISTERED PRODUCT;REGISTERED SOURCE OF ACTIVE INGREDIENT;NO DATA REVIEW ON ACUTE TOXICITY, EFFICACY OR CRP - ONLY PRODUCT CHEMISTRY DATA;CITE-ALL DATA CITATION, OR SELECTIVE DATA CITATION WHERE APPLICANT OWNS ALL REQUIRED DATA, OR APPLICANT SUBMITS SPECIFIC AUTHORIZATION LETTER FROM DATA OWNER;CATEGORY ALSO INCLUDES 100% RE-PACKAGE OF REGISTERED END-USE OR MANUFACTURING-USE PRODUCT THAT REQUIRES NO DATA SUBMISSION NOR DATA MATRIX;

Your request for waiver has been forwarded for review. You will be notified in writing when a determination is made regarding your request. If your waiver request is approved, the decision review time period will start on the date of approval. If your waiver request is denied, you will receive an invoice for the outstanding balance. If you have any questions, please contact the Pesticide Registration Service Fee Ombudsman at (703) 308-9362.

Sincerely,

Peresa Downs

Front End Processing Staff

Information Technology & Resources Management Division

Fee for Service

{928663A~

This package includes the following

- ☒ New Registration
- ☐ Amendment

☒ Studies? ☒ Fee Waiver?
☐ volpay % Reduction: 50

for Division

- ☐ AD
- ☐ BPPD
- ☒ RD

Risk Mgr. 23

Receipt No.

S-

928663

EPA File Symbol/Reg. No.

67690-AR

Pin-Punch Date:

12/26/2012

☐ This item is NOT subject to FFS action.

Action Code:

Requested: R300

Granted: R300

Amount Due: \$ 1,434

Parent/Child Decisions:

☒ Inert Cleared for Intended Use

☐ Uncleared Inert in Product

Reviewer: Aster Achille

Date: 12/27/12

Remarks:

☒ Box 6 not filled out on 8570-1, but subat similar product included in transmitted letter

similarity check

→ 5% or no 2.7%?
- citing our ante tox

☒ 8570-34 not fully filled out

Mezin, Laurent

From: paygovadmin@mail.doc.twai.gov
Sent: Thursday, December 20, 2012 2:14 PM
To: Mezin, Laurent
Subject: Pay.gov Payment Confirmation: PRIA Service Fees

Your payment has been submitted to Pay.gov and the details are below. If you have any questions regarding this payment, please contact Pay.gov Customer Service by phone at (800) 624-1373 or by email at pay.gov.clev@clev.frb.org.

Application Name: PRIA Service Fees
Pay.gov Tracking ID: 25904CAB
Agency Tracking ID: 74390319436
Transaction Type: Sale
Transaction Date: Dec 20, 2012 2:14:16 PM

Account Holder Name: Michael Puckett
Transaction Amount: \$717.00
Billing Address: 11550 N. Meridian St.
Billing Address 2: Ste. 600
City: Carmel
State/Province: IN
Zip/Postal Code: 46032
Country: USA
Card Type: Visa
Card Number: *****0435

Decision Number:
Registration Number:
Company Name: SePRO Corporation
Company Number: 67690
Action Code: R-300

THIS IS AN AUTOMATED MESSAGE. PLEASE DO NOT REPLY.



SePRO Corporation • 11550 North Meridian Street • Suite 600 • Carmel, Indiana 46032-4565
Phone: (317) 580-8282 Fax: (317) 580-8290

20 December 2012

Kathryn Montague
Product Manager 23
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

**RE: Sonar H4C Aquatic Herbicide (EPA Reg. No. 67690-XX)
Submission of EPA Pesticide Registration Improvement Act Information for new product registration.**

Dear Ms. Montague:

SePRO Corporation (SePRO, 11550 North Meridian Street, Suite 600, Carmel, IN 46032, EPA Company Number 67690) is submitting Pesticide Registration Improvement Act Fees for the following submission:

4

- Sonar H4C: R300, \$1,434 (50% fee waiver \$717), Pay.gov Tracking ID: 25904CAB, Agency Tracking ID: 74390319436.

This registration is considered an R300, new product identical or substantially similar in composition and use to a registered product, PRIA review time frame 3 months, and a fee of \$1,434. SePRO qualifies for a PRIA fee waiver/reduction of 50% (EPA approved 50% Small Business Fee Reduction dated 3/23/12; OPP Decision No. D-462010).

If you have any questions, please do not hesitate to contact me at (317) 580-8286 or at LaurentM@sepro.com.

Best Regards,

A handwritten signature in cursive script that reads "Laurent Mézin".

Laurent Mézin
Regulatory Affairs Manager

TRANSMITTAL DOCUMENT FOR:
SUBMISSION OF DATA FOR Sonar H4C (EPA Reg. No. 67690-xx)
20 December 2012

Data Submitter:

SePRO Corporation
11550 North Meridian Street, Suite 600
Carmel, IN 46032

Attn: Laurent C. Mézin, Ph.D.
Tel: (317) 580 8286

Signature: _____

Laurent Mézin

Guideline No.	EPA Data Requirement	Volume No.	Test Subs.	Study Title	MRID No.
ADMINISTRATIVE VOLUME					
0.ADMIN	Cover letter	1	n/a		
0.ADMIN	Transmittal Document	1	n/a		
PRODUCT CHEMISTRY					
830.1550 830.1600 830.1620 830.1650 830.1670 830.1700 830.1750 830.1800	Product Identity and Composition; Description of Materials Used to Produce the Product; Description of the Production Process; Description of the Formulation Process; Discussion of the Formation of Impurities; Preliminary Analysis; Certified Limits; and Enforcement Analytical Method	2	EP	Group A Product Chemistry: The Product Identity and Composition of the End-Use Product Sonar H4C. SePRO (9 pp + 22pp)	
830.6302 830.6303 830.6304 830.6314 830.7000 830.7300	Determination of Color, Physical State, Odor, Bulk Density, pH, and Oxidation/Reduction Chemical Incompatibility	3	EP	Determination of Color, Physical State, Odor, Bulk Density, pH, and Oxidation/Reduction Chemical Incompatibility for Sonar H4C CIA Labs Study No. 120711 (24 pp)	

EPA United States Environmental Protection Agency Washington, DC 20460		<input checked="" type="checkbox"/> Registration <input type="checkbox"/> Amendment <input type="checkbox"/> Other	OPP Identifier Number
Application for Pesticide - Section I			
1. Company/Product Number 67690-xx		2. EPA Product Manager Kathryn Montague	
4. Company/Product (Name) SePRO Corporation/Sonar H4C		3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted	
5. Name and Address of Applicant (Include ZIP Code) SePRO CORPORATION 11550 N. Meridian St., Suite 600 Carmel, IN 46032 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(I), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	
Section II			
<input type="checkbox"/> Amendment - Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated XX-XX-XX <input type="checkbox"/> Notification - Explain below.		<input type="checkbox"/> Final printed labels in response to Agency letter dated XX-XX-XX <input type="checkbox"/> "Me Too" Application <input checked="" type="checkbox"/> Other - Explain below.	
Explanation: Use additional page(s) if necessary. (For section I and Section II.) Submission of new product registration			
Section III			
1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No *Certification must be submitted	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Unit Packaging wgt. No. per Container	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Package wgt. No. per Container	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) Plastic Bag
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1-100 lbs	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
Section IV			
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Laurent C. Mézin		Title Regulatory Affairs Manager Telephone No. (Include Area Code) (317) 580-8286	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature BY: <i>Laurent Mézin</i>		3. Title Regulatory Affairs Manager	
4. Typed Name: Laurent C. Mézin		5. Date: 20 December 2012	



SePRO Corporation

11550 N. Meridian Street, Suite #600

Carmel, IN 46032-4565

Phone: (317) 580-8282

FAX: (317) 428-4577

FROM: Laurent Mezin

TO: Shyam Mathur

COMPANY: US EPA

FAX #: (703) 605 0781

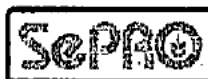
OF PAGES (Including cover): 6

DATE: 01 March 2013

RE: Sonar H4C (67690-AR)

MESSAGE:

Per our recent conversation, please find attached the updated the CSFs for our product currently in review, Sonar H4C (EPA File No. 67690-AR).



SePRO Corporation • 11550 North Meridian Street • Suite 600 • Carmel, Indiana 46032-4565
Phone: (317) 580-8282 Fax: (317) 580-8290

01 March 2013

Shyam Mathur
Technical Review Branch
Registration Division
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

(Via Fax)

RE: Sonar H4C (EPA Reg. No. 67690-AR)
Submission of updated CSFs per your comments

Dear Mr. Mathur:

Per our recent conversation, I have updated the CSFs for our product currently in review, Sonar H4C (EPA File No. 67690-AR).

The following items are enclosed in support of the continued review of this product:

- Cover letter (this document);
- Updated CSFs (Basic and Alternates #1-4).

If you have any questions regarding this submission, please contact me at (317) 580-8286 or LaurentM@sepro.com.

Sincerely,

A handwritten signature in dark ink, appearing to read "Laurent Mézin", written over a horizontal line.

Laurent C. Mézin
Manager, Regulatory Affairs

Enclosures